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FOREWORD

This study is concerned with the development of command facilities for the Army Air Forces during the period of World War II, and it makes no effort to treat the almost equally extensive subject of the expansion of industrial facilities under AAF sponsorship. This latter phase of AAF expansion has already been covered in AFSHO Historical Studies: No. 40, Expansion of <u>Industrial Facilities under Army Air Forces Auspices</u>, <u>1940-1945</u>. No effort has been made to give particular notice to each separate command installation, but most of the important main and sub-bases developed have been at least mentioned in the narrative. The present study was prepared by Robert F. Futrell of the Air Historical Office.

Like other Air Historical Office studies, this history is subject to revisio", and additional information or suggested corrections will be welcome.



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STATUS OF AT . INSTALLATIONS IN 1939

In 4 January 1935 Fresident Receivelt, warning that undeclared wars, the growth of heavy armaments, and threats of new apprecision were sweeping the world dangerously close to general hostilities, called upon Congress to take sterp to protect the wostern hemisphere "against storms from any quarters." The effection focused upon the armod forces as a recult of this adronition revealed to the rubble th t the Army Air Corps lacked the men, the planes, and the base installations it necded both for proper training and for the straight defence of the continental Fraid Stales.

The installation deficiencies were particularly noute because the Air Corre, unlike other elements of the Army, decoded usen its bases not only for housing but for fighting rower and training effectiveness. Yet in early 1939 the bases available to the Air Corps were more like the hodre-podge of airfields which had been salward from Morld Mar I than the dister of takes needed for the protection of the United States in a world which the bases available to a total of the United States American participation in Morld Mar I, the Army had burniedly excended its 3 original training airfields to a total of 50 rajer installations.² Ungent training denords had given little time for cureful site collection, and the simple operational characteristics of the aircraft them in use had remained and the fields to be located on sites which were little more than tracts of level land which could be acquired expediticusly. There had been little, if any, consideration for locating

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airfields for the defense of the United States. At the close of World War I the Army retained some 16 of the installations for its air component,³ and all but three of them were still in service in January 1939.

Of the 10 air bases assigned to the General Headquarters Air Force in January 1939 for use in the defense of the United States, five were of such World War I origin.⁴ Langley Field at M_ampton, Va., and Mitchel Field at Hempstead, N. Y., were the only bases available for the defense of the Atlantic coast. Near the Facific coast, March Field, at Riverside, Calif., functioned as the defense base for the Facific southwest. Located in the center of the continent, Scott Field, at Belleville, Ill., and Selfridge Field, at Mt. Clemens, Mich., could fill no defensive mission.

The five other bases assigned to the GHQ Air Force were of more modern construction. In 1929 and 1930 Congress had permitted the War Department to accept donated sites for Barksiale Field, at Shreveport, La., and for Hamilton Field, at San Rafael, Calif. Barksiale had been constructed with some view to its use for the defense of the Gulf coast, and Hamilton had been designed as a bomber base for the defense of the San Francisco Bay area.⁵ In 1935, as a part of an exchange of facilities between the Army and Navy to relieve duplication, the War Department had been required to give up its air bases at Rockwell Field, San Diego, Calif.; old Bolling Field, Anacostia, D. C.; and Luke Field, Oahu, T. H., in exchange for Moffett Field, Sunnyvale, Calif.⁶ The exchange was not particularly desired by the Air Corps, and Moffett, because of its high annual maintenance costs (especially on the large dirigible hangar), war thought to be a poor station. As

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a frontier defense bace it duplicated facilities located at Familton Field, just to the north of San Francisco Eay. During the period between 1935 77 and 1939 there had been considerable agitation to return it to the Navy. After the transfer of old Bolling Field to the Pavy, the Mar Department had secured funds for the development of a new air base, also called Bolling Field, immediately south of the old installation, and in 1939 The newest of the this base was just becoming completely operational. GHQ Air Force bases was McChord Field, at Tacoma, Wash., which had been authorized by the Wilcox Act of 12 August 1935. This act, written with the advice of the Chief of the Air Corps, had authorized the construction of bases in the northeast, southeast, and northwest United States, in Alaska, and air depots in the southeast and Rocky Mountains area of the United Under its comprehensive authority, the Air Corps had asked for Strtes. funds to construct the northwest air base, later named McChord Field. Construction had been initiated on the donated site in 1938, but the field was not to be ready to receive tactical units until 1940.

These GHQ Air Force stations did not satisfy the requirements of the Air Corps defensive mission. The Air Corps Board, the agency responsible for recommending Air Corps tactical doctrine, had concluded in . 1936 that "in the past Air Corps stations have not been located solely in accordance with tactical or strategical requirements." There was no air base in New England although its industrial complex made it a prime objective for energy air attack. The southeastern United States and the entrance to the Caribbean were similarly unprotected. The Air Corps Board considered that both of these regions needed the facilities which had been authorized in the Wilcox Act. The inadequacy of the 1939

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tectical stations for the operation of the heavier and factor military aircraft which were being trought into use in 1939 were also evident. The arrival of P-17 at Excilton Field, for example, hed led to immediate demands for tariways which had not been provided in the original decign for the bender base. The CHQ Air Force had protested in 1937 that drainage, housing, and lending fields at its bases were imadequate, and econorcial engineers had recommended that paved runways at least 7,000 feet in length would be needed for the new types of heavy benders. None of the tactical stations possessed such facilities.

The burden of World War I construction, supposedly tenforary in 1917 and 1918, lay heavily upon the fields used by the Air Corps for training in 1939. Of the seven air baces used in January 1939 for such training, only two had been constructed since World Mar I. All three of the Air Corps flying training fields had been located in the vicinity of San Antonio, Tex., for purroses of economy and centralization and to take advantage of the good flying weather of couth Texas. Kelly Field, originally the aviation contonment of Fort Sam Houston, had been formally established in July 1917, had been used for flying training during the war, had been a mechanics training school from 1920 to 1922, and had been 13 again reopened as a flying school in 1922. Training had begun at Brooks Field in March 1918, but in May 1919 a balloon school had replaced the flying school. After the movement of the lighter-than-air school to Scott, Brooks had been reopened as a primary flying school in 1922. The single new flying training field, Rendolrh, had been organized in September 1928 and its installations had been erected in the years which followed. Primary and basic training functions, previously located at

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March and Brooks Fields, had been concentrated at Randolph in 1931. Kelly, however, had been continued in operation as a sub-post of Randolph, although this prevented a capacity exploitation of the newer plant at 15 Randolph.

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The two airfields used for Air Corps technical training in 1939 were Chanute Field, at Rantoul, Ill., and Lowry Field, at Denver, Colo. Chanute had been located and leased in May 1917 as a flying school, and after the war it had been used temporarily as a storage derot for aviation supplies. In 1921, as a purely temporary expedient, the plant had been reopened to receive the mechanics school from Kelly, but eventually all of the technical training functions of the Air Corps had been concentrated at Chanute. When it was proposed to move the school in 1930, however, so much opposition was manifest in Illinois that the project had to be abandoned. In 1934 a site board again recommended that the school be moved to Denver, Colo., in 1937 a political compromise permitted the movement of a part of it, and in 1938 three of the technical departments were transferred to new facilities which were donated at Denver. As a part of the donated facilities the technical school also obtained a 10 x 10-mile bombing range, badly needed for training of bombardiers. In January 1939 the new air base at Denver, Lowry Field, was being 16 built.

Maxwell Field at Montgomery, Ala., site of the Air Corps Tactical School and the Air Corps Board, had a combined training and experimental mission. The property had been originally secured for an engine repair shop in December 1917, but in 1921 the maintenance function had been

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moved to Fairfield, Chio, leaving Maxwell to become a flying field. In 1927 permanent construction had been initiated, and in 1931 the Tactical School hed moved from Langley to occury the new plant.

Both from the point of view of housing and technical facilities these training airfields--with the notable exception of Randolph--vere poorly equirped for their mission. Housing at Chanute, Kelly, and Ercoks was predominantly of World War I origin. The use of such "temporary" construction had, in fuct, led General Arnold to remark that the government had got more than its money's worth from such emergency housing. The salubrious climate of south Texas prevented actual hardships to the personnel hcused at Kelly and Brooks, but Chanute, over-crowded and run-down because of the long indecision as to its fate, was positively dangerous to the health of its inhabitants. "Don't shoot 'em, Chanute 'em," had become a popularly conceived punishment facetiously spoken of in the Air Corps 19 for officers who incurred displeasure. Maxwell Field, although one of the showplaces of the Air Corps because of its buildings, which had cost \$3,433,612 of the \$5,371,167 expended on the station by June 1940 hrd runways which could be extended in only one direction for more than 3,500 feet, and the OCAC estimated that a new installation could be built for less than the amount of money that would be required to buy the expensive property needed to bring Maxwell up to proper operational standards.

The four air depots existent in January 1939, except for changes in designation and the movement of one of them to a new plant, were closely similar to the depots which had remained in use after World War I. The

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San Antonio Air Depot, oponed at Duncan Field in September 1917, was still operating in 1939. Middletown Air Depot, at Harrisburg, Fa., also founded in 1917, was so sharply bounded in area that there was considerable indecision as to whether it should be retained or abandoned. Fairfield Air Depot, Fairfield, Chio, established in January 1918 to give services to the wartime Wilbur Wright Field, had limited facilities in 1939. Sacramento Air Depot, Sacramento, Calif., was the only now depot. Ground had been broken at its site in 1936, and the old depot which had been at Rockwell Field was moved there in 1933. Construction was still underway in 1939.²¹ The headquarters and the experimental activities of the Nateriel Division, CCAC, were located at Wright Field, Dayton, Chio, a new field which had been occupied in 1927.²²

Even in terms of normal peacetime requirements, existing facilities at the four air derots in 1939 were no more than barely adequate. With the exception of the new Sacramento Warehouse, available storage facilities were filled. The repair capacity of the four depots was but 3,400 work units per year. The San Antonio Air Depot at Duncan Field was crowded between Kelly Field and the tracks of the Texas and New Crleans Railroad, making expansion impossible. The Middletown Air Depot was similarly crowded between an urban area and the Susquehanna River. The use of heavier aircraft had made the landing fields at Fairfield and Middletown hazardous. Fatterson Field, at Fairfield, was without runways and heavier aircraft met difficulty in landing in inclement weather. Olmstead Field, Middletown Air Depot, was so small and circumscribed by flying hazards as to be dangerous for nevigation.

In January 1939 Army observation units, organically a part of the Air

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Corps but assigned to Arry ground units for administration, training, and operational centrol, were located at L-ween Field, Fort Eenning, Ga.; Fopo Field, Fort Eragg, N. C.; Gedman Field, Fort Enox, Ky.; Gray Field, Fort Lowis, Wach.; Marchall Field, Ft. Riley, Kan.; and Fost Field, Fort Sill, Okla.²⁴ These units varied in size from a flight to a squadron, and the fields were, for the most part, small and limited in facilities. Godman Field, for example, had originally been the Fort Enox polo grounds, and the observation squadron there in 1939 operated from a grass strip.²⁵ In October 1937 it had been reported that housing conditions at the air support fields varied from "fair to bad." Other small fields were Stewart, at the Military Academy; Fhillips, at the Aberdeen, Md., ordnance testing ground; and Sherman, at Ft. Leavenworth, Kans. All of these fields were a part of the local posts, and they were not controlled by the Air Corps.

The bending and gunnery ranges available to the Air Corps in early 1939 were too few in number and too small in size for the intensive training which was desired. In 1936 the Air Corps Board had recommended that a suitable range was necessary for each Air Corps station, and in 1937 the GNQ Air Force had described the lack of available ranges as the "limiting factor" in its preparation for combat.²⁷ Flum Tree Island, off the Virginia coast near Langley, had been acquired in 1930, and in September 1936 Langley had also secured the use of Mulberry Island, a part of the Fort Eustis Coast Artillery Reservation, but it was not until September 1940 that the Coast Artillery Corps agreed that the Air Corps interest there was paramount. Selfridge had acquired a gunnery range at Camp

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Skeel, Oscoda, Mich., in 1922, which was suitable only for summer use. In 1933 tactical units at March Field had begun bombing and gunnery training at Muroc Lake, Calif., but this dry lake bed became wet during inclement weather and a scattered holding of civil claims complicated its use. Mitchel and Hamilton had no regular ranges, but units at the former used a range at Camp Upton, N. Y., and at the latter made some use of the old Mather Field, Calif., reservation. In 1936 the Air Corps Tactical School had secured the donation of 1,460 acres of land including a civil airfield at Valpariso, Fla. This installation, called Eglin Field, also made use of overwater ranges and ranges in the Choctawhatchee National Forest. Range facilities in the forest area, however, were severely limited by a checkerboard of civil holdings which covered the reservation. The ranges at Barksdale were located on the immediate air base area, and, although this reservation included 26,986 acres, the closeness of the ranges to the airfield traffic pattern caused some difficulties. Largest of the bombing ranges was the 64,000-acre tract southwest of Lowry Field which the Air Corps Technical School had brought into use in February 1938.

The Air Corps also maintained small detachments of weather, communications, service personnel, and organized reserves at 29 civil airports to service and control Army aircraft making use of the airports in crosscountry and ferrying flights. Since it was obviously impossible for the Air Corps to maintain during peace the number of installations which would be needed for $w_{0}r$, the Army looked to the civil airports of the nation for the additional bases which would be needed during a national emergency.

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War plans required a net-work of civil airfields, suitable for military use, in each of the nation's four corners and a similar route of civil airfields connecting these peripheral areas of the United States. In January 1939, however, the Civil Aeronautics Authority, after an extensive survey, reported that of the 1,907 civil airports in the continental United States, only 882 had facilities for refueling, only 230 had adequate lighting equipment, and only 231 had hard surfaced runways. The CAA standards for classification of airprts included four specifications based primarily on runway length: Class I, 1,500 feet; Class II, 2,500 feet; Class III, 3,500 feet; and Class IV, 4,500 feet. By Air Corps standards only Class III and Class IV airfields were generally suited for military use. Although a number of the airports were penalized by the lack of the specified facilities and so were forced into a lower category, there was on 1 January 1939 not a single Class IV civil airport in the United States. Cnly 36 civil airports were in Class III, and only 178 were in Class II. Approximately seven-eights of the existing civil airports were thus in the lowest specification or failed to meet the CAA Between 1933 and 1939 the government had spent some standards at all. \$137,931,950 for relief purposes on the development of civil airports, but from the point of view of national defence too much of this relief money had gone into the development of small fields. A Federal interest in the development of a national system of airports was vital if the 38 civil airports were to be made of value to the national defense.

Several fairly obvious difficulties had been encountered by the Air Corps in building up to its 1939 air base situation. It had certainly been penalized by the large number of World War I bases which had been continued

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in use with minor improvements despite the fact that most of them were not suit, bly located for continental defense. The rapid development of larger and heavier military aircraft types had caused all of the air bases to become obsolete much more rapidly than funds could be secured to expand them. Although the Air Corps had been authorized new bases by the Wilcox Act, it had been inexpedient to ask Congress for funds to construct them. Moreover, the Air Corps, with its units understrength, had neither the personnel nor the equipment for any additional bases even if they could have been secured. The War Department had not been entirely free to determine its own program of construction for the Air Corps. The 1935 interchange of facilities, for example, had forced the War Department to use the bulk of its funds for new air bases in Hawaii, the District of Columbia, and for a new depot at Sacramento. Funds had thus been diverted to substitute facilities which might have gone into the building of the new bases authorized or into the expansion of the existing plant. Since all funds for land acquisition were a part of the money appropriated for construction, it had been thought inadvisable to secure large areas for bombing and gunnery practice at the expense of needed construction. Finally, although the Air Corps had admittedly got the lion's share of Army construction funds in the late 1930's, the total appropriations for all Army construction had been infinitesimal when compared to Air Corps 39 needs.

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Chapter II

AUGMENTATION OF AIR FACILITIES, 1939-1940

The near impasse in the construction and improvement of Air Corps base facilities was brought to an end in the spring of 1939. As he had promised eight days earlier, Fresident Roosevelt sent Congress a message on 12 January asking a \$300,000,000 appropriation "for the purchase of airplanes for the Army." The additional planes, he explained, would "considerably strengthen the defenses of the continental United States, Alaska, Hawaii, Fuerto Rico, and the Canal Zone."

On 13 January General Arnold proposed that \$62,000,000 of the appropriation should be spent on two new continental air bases, and one air base each in Puerto Rico, Fanama, and Alaska. This program, he urged, would provide the nucleus of "a well-rounded air defence which would be wholly lacking if the whole \$300,000,000 were devoted to the procurement of airplanes."² He also pointed out that "airplanes alone, even of a superior type, do not make an air force."³ On 18 January General Arnold asked the Chief of Staff to secure \$20,000,000 of WPA funds to build two new air depots. Provision for these depots, needed to repair and maintain the new aviatich equipment about to be authorized, had not been included in the \$62,000,000 estimate⁴ and he was unvilling to use wore than this amount of the \$300,000,000 for construction. The Air Corps thus hoped to secure all of the base installations which had been authorized by the Wilcox Act, plus additional air bases in Fuerto Rico

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and Fanama. All of these facilities were urgently needed for hemispheric defense.

After the necessary hearings and debates, Congress followed the general recommendations of President Roosevelt. On 3 April 1939 the Air Corps was authorized the \$300,000,000 with which it was to procure and maintain a strength of 6,000 aircraft. By the appropriations act of 1 July Congress allowed a cash outlay of \$64,862,500 plus a contract authorization of \$21,337,500 for the Air Corps construction. Despite General Arnold's efforts to secure funds for the two air depots from the WPA, these costs at the last moment had been figured into the overall requirement--thus making the grand total for construction \$86,200,000 instead of the amount recommended by the Air Corps. On 21 July the Secretary of War announced the allotment of \$62,800,000 plus \$3,961,000 of WPA funds for Air Corps construction.

General Arnold, long impressed with insufficient funds and realizing that the needs of the Air Corps still exceeded its means, sought to insure a maximum utilization of all new facilities. To this end he cautioned all station commanders not to attempt to bring pressure on the War Department through civilian channels for particular projects of interest to them.¹⁰ In all construction it was emphasized that simplicity would be the keynote.¹¹ Station commanders were also enjoined that funds could be made available for "only the most urgently needed essential items."¹² Under General Arnold's directions the construction estimates were set up so that no definite amounts were committed to specific projects, so as to permit savings on one project to be applied to another.¹³ Fermanent construction

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was to be provided for all technical buildings; troops, other than those in Alaska and Panama, were to be housed in temporary mobilization-type structures. General Arnold estimated that permanent construction for all of the new stations would have cost about \$128,000,000 and he was certain that nothing had been left in his program for construction "but the mere flesh and bone." He defended the use of temporary housing by stating that there was neither the time nor the money for construction of permanent buildings at all of the new stations and by pointing out that such World War I temporary construction was still in use.

The channels for effecting construction were clogged in 1939; most of the authorities and responsibilities were vested in the War Department General Staff. Ordinarily the using service indicated its general needs and, if new stations were to be built, requested the appointment of War Department site boards to recommend sites for the new installations. The Assistant Chief of Staff, G-4, initiated the necessary papers, and, after approval by the Chief of Staff, the boards (with membership representing all interested agencies) were formally appointed by The Adjutant General. They made their investigations and reported to The Adjutant General who in turn sent their reports to the G-3 and G-4 Divisiors of the General Staff and to the chief of the using agency for corment. These individuals having commented, the board proceedings were transmitted to the Secretary of War for final approval. After his approval of the site the using agency next requested the initiation of construction, and the G-4 Division, acting for the Chief of Staff, directed the Quartermaster General to acquire the necessary real estate and to prepare layout plans in coordination with the wishes of the using agency. Following the approval of the layout plans, construction

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directives were prepared by the G-4 Division, approved by the Chief of Staff, and issued to the Quartermaster General whose construction Quartermasters on the local project supervised the actual work at the site.

Since the two new continental bases were actually to be used by the GHQ Air Force, there was some doubt whether this agency or the OCAC should assume the initiative for their construction. On 1 March 1939, however, the Chief of the Air Corps was designated the immediate commander 16 between the GHQ Air Force and the War Dep-rtment, and the OCAC assumed the initiative in the matter. On 18 April 1939 General Arnold informed the GHQ Air Force that the Buildings and Grounds Section, OCAC, would review all layout plans for new construction. The GHQ Air Force, however, W_{p} s to submit requests for additional facilities needed at its bases to The GHQ Air Force would also be allowed to the Chief of the Air Corps. comment on the site locations of the new bases.

Planning for the location of the new combat bases had actually begun far in advance of the actual appropriations for their construction. In 1936 the Air Corps Board had recommended that these combat bases be located far enough inland so that enemy aircraft would have to search over unfamiliar territory to find them. In 1938 General Arnold had desired that At Arnold's request, the War this proposal be followed in principle. Department had established a site board in October 1938 to select a tentative site for the northeast air bace. This board, correced of officers from the Mar Department General Staff and OCAC,²⁰ had been directed in January 1939 to extend its search to locate sites for the

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By April 1939 this board had completed 21 22 none of the cites recommended by the southeast air base and air depot. beard for the northeast air tace were found satisfactory, but there was quick agreement on the locations for the southeast air base and depot. General Arnold accordingly recormended that the sites for the latter two installations be approved and the site for the northeast air base be made On 13 July the Secretary of Mar the subject of more invectigation. accordingly announced that the southenst air base would be located six miles southwest of Tampa, Fla., on a reminsula which jutted out into 4 This site was selected because it was far encugh south to permit its aircraft to operate in the Caribbean and still to be shielded by the mainland of Floride against possible carrier-borne attacks. The location of the northeast air base near Chicopee Falls, Mass., a decision made difficult by the dense regulation of the area, was not announced

Following the designation of sites the Office of the Quartermester until 15 September 1939.

General made detailed surveys and drew up plans for construction. After approval by the Office of the Chief of Air Corps the specifications were 27 sent to local QMC officers who were selected to supervise the actual work. Since clearance of a maze of tax claims at Tampa required condemnation procedure and WPA funds were used to pay for clearing the land, construction did not begin until early in 1940 on the base which was to be known as MacDill Field. At the northeast air base, subsequently nemed Westover Field, condemnation and evacuation proceedings were also necessary

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and construction could not begin until February 1940. General Arnold accurately predicted that the two air bases would not be fully operation-29 al for at least two years. MacDill was ready to receive its air take 30 group in March and April 1940, but Westover was not sufficiently completed to receive a similar complement until later that year. Because there was no heat in the maintenance buildings, the heavy bombardment group schedul d for Wertover was not ordered there until May 1941. In order to provide landing facilities for the heavy bombardment group which was transferred to MacDill in May 1940, the Air Corps had to secure the use of the landing field at nearby Drew Field and operate there until the runways at MacDill were completed in February 1941.³²

Site selection for the depots at Ogden and in the scutheast had also been accomplished prior to the appropriations for the depots. The site for the Ogden Air Depot had been inspected during the period of optimism following the passage of the Wilcox Act, and a site for the future depot had been located adjacent to the Ogden Ordnance Depot, a site which the Army considered suitable to supply any place on the Facific coast and yet be far enough distant to protect it from enemy The site for the southeast air depot was selected by the attack. same board which investigated sites for the northeast and southeast air bases. After inspecting New Orleans, La., Panama City, Fla., and Tampa, Fla., Mobile, Ala., was chosen because it was thought that a depot there would augment the logistic facilities of Fanama and support a task force in the South Atlantic. The War Department announced its approval of The actual construction "ctivity the Mobile site on 13 July.

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W_ps initiated by the Quartermaster Corps, and work was begun at Ogden in January 1940; although both the air depot and the adjoining Hill Field were ready for limited operations during 1940, they were not completed until late 1941.³⁵ At Mobile the government began land procurement in January 1940, but problems of drainage and clearing delayed construction until June; the Mobile air depot and its Brookley Field were consequent-36 ly not ready for full-scale operations until January 1942.

The augmentation program included no appropriations for new flying training fields, but the Chief of Air Corps was permitted to enroll flying cadets in civil schools for elementary flight training. Ground work for this training had been laid prior to the passage of the enabling legislation: in Nov-mber 1938 the Chief of Air Corps had directed the Air Corps Training Center to establish a board for the inspection of the ll civil flying schools which had indicated that they were interested in receiving government contracts. On 6 June 1939 the War Department approved a request for authority to organize nine civil school detachments.^{*} The government incurred no expense and no responsibility for the erection of facilities at these civilian contract schools. Training started at all of them shortly after 1 July 1939.³⁷

The appropriation of 1 July 1939 did carry funds for the expansion of technical training facilities at Chanute and Lowry. In addition to these expanded facilities, the Air Corps Technical School secured the use of Scott Field on 1 June 1939 for housing a basic training center, an arrangement which was supposed to hold good until such time as the

*These were located at Tulsa, Okla., Santa Maria, Calif., Dallas, Tex., San Diego, Calif., Tuscaloosa, Ala., Glendale, Calif., East St. Louis, Ill., Lincoln, Neb., and Glenview, Ill.

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headquarters of the GHQ Air Force moved to Scott.³⁸ The Air Corps Technical School was also permitted to rake contracts with civil schools at Chicago, Ill., Glendale, Calif., Boston, Mars., Newark, N. J., East St. Louis, Ill., Garden City, N. Y., and Tulsa, Okla, for training aviation 39 mechanics.

Efforts to secure bombing and gunnery ranges during the 1939 augmentation were only partially successful. In July 1939 General Arnold requested that three ranges should be acquired for McChord, Hamilton, and MacDill Fields, but the War Department, pointing out that Congress was holding hearings on what would probably be the last deficiency appropriation for the year, directed the Air Corps to broach the matter during 40 the new fiscal year. In September 1939, however, the Air Corps again requested funds for the development of ranges near Valpariso, Fla.; near Boise, Idaho, or Spokane, Wash.; and near Hamilton Field. Funds were appropriated for the acquisition of ranges near McChord and Hamilton in February 1940 and in June Congress gave the Choctawhatchee National Forest area to the Army. Two boards, consisting of representatives from the War Department General Staff, the OCAC, the QMC, and the GHQ Air Force, were appointed to seek possible sites in the eastern and western sections of the United States. The acquisition of the Choctawhatchee National Forest pre-empted the function of the board for the 43 survey of the eastern United States, but by April 1940 the western site board had located sites near Arlington, Ore., Sacramento, Calif., Wendover, Utah, and Tonopah, Nev. Almost immediate possession was secured of the tract of waste land near old Mather Field, Calif., but the negotiations for the other ranges dragged on so long that they may

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more properly be concidered to have been a part of the 1940-1941 expan-44 Bion of Air Corps facilities.

During 1939 the OCAG worked closely with the CAA and the WPA to develop the civil airports of the nation to a point suitable for military exploitation. Under the Civil Aeronautics Act of 1938 the CAA had been charged with the collection of data and the formulation of policy for a system of public airfields which would be of value to commerce and to 45 the national defense of the United States. Late in August 1939 the War Department directed the Chief of Air Corps to submit a list of civil airports which should be improved, indicating also the desired priority and extent of improvement. With wer beginning in Europe early in September, the Air Corps almost immediately replied that it desired all of the civil airports lying within 100 miles of the Atlantic coast from Maine to Mobile, Ala., to be built up. As a second priority it wished all of the larger airfields of the remainder of the country developed to 46 a point suitable for military use. On 14 September the OCAC designated military priorities on the CAA tentative project list with the understanding that the designation was subject to change. 47 At general conferences between representatives of the CAA, the WPA, and the CCAC were held later in September, it developed that by law WPA funds could be used for development of airfields only in proportion to the relief needs of the various states and each local agency, moreover, which desired to secure such a grant had to contribute a sponsorship share of funcs. The WPA nevertheless agreed to take cognizance of Air Corrs requests for high priority development of airdromes along the Atlantic coast and to keep the local sponsorship share for such military projects as low as

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possible. The CAA agreed to solicit sponsors for projects of military necessity, and the Air Corps indicated that it would furnish the two agencies with a definite list of airports which were of importance to the national defense. $\frac{48}{1000}$

To determine the airfields necessary for WPA development, General Arnold secured the formation of a committee representing the War Plans Division, the Navy, and the OCAC. This committee reported that enough airports should be developed in the northeast to accommodate the entire striking force of the Air Corps. In the southeast it believed that a lesser force would be required but that several airports would be needed for movement of aircraft to the Caribbean, to Panama, and to South America. In the northwest it named airports needed both for local defense and for staging units to Alaska. Only one airport--that at Brownsville, Tex., which was thought to be necessary for ferrying via the inland route to Panama-was specified for development. It recommended that 5,000-foot runways would be required at all the airdromes recommended for development by the CAA and the WPA. The revised list was transmitted to the War Department on 11 December 1939, and after the WPA had added other airfields in Alaska, Puerto Rico, and Haiti, the final revision was sent to the CAA on 4 January 1940 by the Secretary of The WPA, in its turn, directed each of its local administrators concerned to cooper te with the CAA in setting up airports for develop-War . ment with WPA funds on the most advantageous conditions.

The 1939 augmentation construction program was to be the last of the peace-time type expansions. Its base facility requirements had been long planned, its construction costs closely figured, and its execution closely

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STOP THE PERMANAGE AHS-69, Chap. II monitored. There had been few, if any, mistakes, but the time consumed in such perfectionistic efforts meant that no repetition on similar scale would be possible in the more rapid expansions of the Air Corps which were to follow. The achievements of the program had been notable: the strategic bases needed for a minimum of strategic defense had been rounded out, and a working cooperation had been established between the

Air Corps and the CAA and WPA.



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Chapter III

EXPANSION OF FACILITI'S FOR HIMISFHERIC DEFENSE, 1940-1941

By April 1940 the augmentation program, conceived prior to the beginning of World War II, had brought the Air Corps to a personnel strength required to man its 25 combat groups. Continued Nazi successes, however, made it evident that 25 groups could not defend the hemisphere. In June 1940 the Air Corps was accordingly directed to expand to a strength of 54 combat groups, and in March 1941 it was further directed to expand to 84 combat groups. The Chief of the Air Corps, with increasing responsibility, had to secure new facilities to provide for the increased training, maintenance, and dispersal requirements of the two programs, as well as for the combat groups. In a third and less extensive, program, the War Department General Staff initially assumed most of the responsibility for building up the observation units needed for cooperation with its expanding ground forces. The Chief of the Air Corps at first shared only partially in the development of facilities for these units, but in July 1941 the newly created Army Air Forces inherited active direction of the whole rather confused matter. These three phases of effort were designated, whether rightly so or not, as hemispheric defense programs.

1. The 54 Combat Group Program.

The easy successes of the German armies in the Netherlands and France in May and June 1940 gave ample indication of the strength of the Axis

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air arm. An Axi: victory in Europe, which, despite American neval supremacy, might permit a German-Italian penetration into South America with a strength of come 1,000 tactical aircraft, seemed possible. To meet this threat, Congress 13 June 1940 voted funds to complete the Air Corps construction authorized in 1939, to expand the enlisted strength of the Air Corps to 55,000, to increase the authorized aircraft strength of the Army, and to raise the rate of rilot training to 7,000 per year. In a supplemental appropriation, spurred to quick approval on 26 June by the collapse of France, Congress voted funds and authority to increase the Air Corps enlisted strength to approximately 94,443 men.

Acting on the authority given in the supplemental appropriations, the Wer Department on 29 June directed the Air Corps to organize its tactical strength on the basis of 3,873 combat aircraft, 2,131 combat aircraft in reserve, and 6,831 training aircraft. This program it designated as the Army's first aviation objective. The form of organization set up by the Air Corps required 54 combat groups, six transport groups, and 4,006 tactical aircraft assigned to units. Funds and personnel allotments, however, permitted the immediate organization of only 41 combat groups, and it was not until 8 October 1941 that the Air Corps secured the appropriations needed to finance the difference between the approved 41 combat groups and the projected 54 group organization. 4 Actually both of these expansions (with the exception of their pilot training programs) were undertaken simultaneously under the designation of the 54-group program. Under the two programs there were related expansions of flying training, technical training, and depot maintenance facilities. New bases and other installations had to be secured for each of these augmentations as well as for the accommodation of the new combat groups.

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Expansion of Training Facilities

The most immediate task for the projected combat expansions was to increase the pilot tr. ining rate, planning for which antedated formal legislative approval. At the White House on 14 May 1940, General Arnold proposed to raise the rate of pilot training from the current 4,500 to 7,000 per year and to utilize the pilot eliminees for navigation and bombardment training. Having secured tentative approval of this idea, he forwa ded a formal plan for the accomplishment of these objectives to the Chief of Staff on 24 May. This plan, among other features, proposed that the existing Air Corps Training Center be expanded into three centers-the Southeast, the Gulf Coast, and the West Coast Air Corps Training Centers. The Gulf Coast Training Center was to control Randolph, Kelly, Brooks, a new advanced school to be located in south-central Texas, and a new specialized school to be located near Houston, Tex. The Southeast Training Center was to be assigned Maxwell, Barksdale, a new advanced school near Maxwell, and a specialized school to be located at Eglin Field. The West Coast Training Center was to take over Moffett and to open a new advanced school in the San Joaquin Valley of California. Each of the civil contract schools was to open a new civil school. The War Department approved this recommendation on 6 June, and funds to house the increased number of flying calets, to build the new training fields, and to secure additional training aircraft were appropriated on 13 June.

During May 1940 the CCAC requested each of its nine civil contract schools to make plans to open nine additional schools on the Facific coast. The Air Corps Training Center appointed a board of officers to inspect the sites for the new schools recommended by the civil schools,

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and on 19 June the OCAC announced that locations had been approved. Training of navigators was inaugurated on 10 August at a civil school operated by Fan American Airways at Coral Gables, Fla.

Acting on War Department orders, the Air Corps Training Center formed a site board to select sites for the military flying schools. After having received telegraphic recommendations from the future commanders of the West Coast and the Southeast Training Centers, the board rather perfunctorily proposed to locate a bombardier school at the site of old Ellington Field, near Houston, Tex.; a new basic school at the municipal airport, Montgomery, Ala.; a new advanced school at the municipal airport, Stockton, Calif.; and a new advanced school near San Angelo, Tex. A site for a specialized pursuit school near Selma, Ala., was selected and approved later in June.

With these preliminaries out of the way, the redistribution of the existing facilities was undertaken. On 8 July the three new training centers were established.¹⁰ Maxwell, Moffett, and Barksdale were turned over to the centers on 15 August, 10 September, and 15 October respectively.¹¹ Eglin Field, expanded to include the whole Choctawhatchee forest area, was designated as a separate post and as the site of a gunnery school on 17 August. On the same day the other new schools at San Angelo, Ellington, Montgomery, and Stockton were formally constituted by the War Department.¹²

Construction at the new installations was slower than had been anticipated. Complicated lease negotiations at the Montgomery municipal

* Muskogee, Okla. (Hatbox Field), Fort Worth, Tex. (Hicks Field), Hemet, Calif., Oxnard, Calif., Ontario, Calif., Jackson, Miss., Sikeston, Mo., Lakeland, Fla., Albany, Ga.

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airport delayed government entry until August 1940, but by November the new station--called Gunter Field--was ready for training. In a change from the first plans, Gunter was developed as the basic training school Fossession was taken of the lease-13 for the Southeast Training Center. hold at the Stockton municipal airport in July, and training began late in December 1940. On 18 July, 640 acres of land were leased near San Angelo, construction began in August, and the new Goodfellow Field was ready for the beginning of basic flying training in February 1941. A lease was negotiated at the site of Craig Field, Selma, Ala., in July, clearing and construction began in August, and flyin- training began Construction of the new instal-16 there on temporary runways in May 1941. lation at Ellington Field met the most difficulties: the construction which began in August 1940 was so retarded by rain and drainage problems that the field was not ready for flying training until October 1941. Originally it had been planned that construction be limited to construction of cantonments and development of a turfed landing field at these stations, but local soil conditions soon made it evident that some sort 18 of landing surface would be necessary. Congress appropriated funds for prepared landing surfaces at these fields on 17 March 1941.

The tactical expansions also necessitated an increased training rate for Air Corps technicians. The 41-group program required an increase in enlisted strength from about 43,000 men to over 94,000, and the 54-group program required more than 136,000 enlisted men. Accordingly, the OCAC directed its Technical School on 7 June 1940 to prepare to train an additional 21,100 technicians (making a total of about 31,600 men to be trained) prior to 31 December 1941. It hoped to accomplish most of the

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added training by using civil contract schools, and it proposed to train 21 administrative clerks in civil schools. Before such planning could be effectuated, the Air Corps encountered the needs of the 54-combat group program, and on 11 July the OCAC directed the Technical School to prepare to train about 52,000 technicians in the same period of time. This 22 directive contemplated use of Scott Field for technical training, and the establichment of two new Army technical schools at new installa-Colonel G. C. Brant, Commandant of the Technical School, re-23 tions. plied with the proposal that this training could best be accomplished by a maximum exploitation of the existing training plant and by a system of apprentice training in individual combat units. The Technical School, it was explained, had neither the personnel nor the equipment necessary to found new branch schools, and it was not believed that civil schools could train a large number of students. This apprentice plan was re-24 jected by the CCAC because it required too much time for accomplishment.

The actual accomplishment of the training objectives represented a compromise of viewpoints. The Air Corps secured \$6,000,000 from Congress for two new technical schools on 8 October 1940, but they were not to be 25 built during the 54-group expansion. Instructional shifts were put into effect at the existing technical schools. Scott Field was established as the permanent station of the Radio Operators and Mechanics Course in 26 September 1940. The War Department offered Jefferson Barracks, St. Louis, Mo., to the Air Corps for use as a replacement and basic training center, and on 30 July the rost was turned over to the Air Corps. By October 1940 Jefferson Barracks was in use, and in February 1941 it was

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formally designated as an "Air Corps Replacement Center (Technician).²⁸ In order to clear Lowry Field for armament and photography training, the Technical School requested the (CAC to secure nearly Fort Logon, a ground forces port which was being evacuated, as a site for clerical training.²⁹ In November 1940 the War Department made this assignment, and on 1 March 1941 the clerical department was moved to Fort Logan.³⁰ The technical training expansion also made use of civil mechanics schools in addition to those which had been given contracts in 1939.^{*}

The effectuation of plans for 54-combat groups also necessitated another upword revision of pilot training, and in August 1940 formal planning was begun to train 12,000 pilots annually. The OCAC sought to secure a part of this increace by a concentration of training into shorter courses, but some physical expansion was made inevitable by the very size of the increment. Accordingly, the Air Corps asked for eight new flying training fields, two new gunnery training fields, and five new cadet reception centers. Funds for this construction, amounting to \$19,082,500, were appropriated on 24 September 1940.²² Late in September the COAC directed each of its three training centers to make recommendations for locations of their share of the new installations. Certain sites were suggested for investigation, but the responsibility for preliminary recommendation was placed on each center.

The Gulf Const Training Center was directed to recommend sites for a new observers' school, a new basic school, an advanced twin-engine school, two advanced single-engine schools, and two gunnery schools, one of which

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^{*}By October 1940 classes had entered such civil schools at Oakland, Calif., Inglewood, Calif., Dallas, Tex., New Orleans, Ia., Lincoln, Neb., Kansas City, Mo., and Fhiladelphia, Fa. Another school at Jackson Heights, L.I., N.Y., was added in January 1941. (Hist. of Army Air Corps Technical Training, V. 1, pp. 121-22.)

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to be in the Victoria-Matagorda area of Texas. Because of the urgent need for a school to train observers, the CCAC prior to receipt of formal recommendations directed that the new observation school would be located at Brooks Field. After three sets of recommendations had been subritted, the CCAC finally allocated only one advanced flying school--for which it favored the site at Victoria, Tex .-- to the Gulf Coast Training Center. 35 The West Coast Training Center $w_{a}s$ directed to make recommendations for the location of a new basic school, two new advanced flying 36 schools, and one gunnery school. The board set up by the center to locate these sites investigated and discarded some 34 sites, and on 11 Cotober it recommended Bakersfield, Calif., for the new basic school; old Mather Field, Sacramento, Calif., for the advenced twin-engine school; Fhoenix, Ariz., for the advanced twin-engine school; and Las Vegas, Nev., for the new gunnery school. 37 In December the CCAC directed the center to recommend a site for an additional basic school, and the training center board offered a site at Taft, Calif. Between 28 September and 18 October a Southerst Training Center site board inspected 24 possible sites within its area. Its final recommendations were that a flexible gunnery school should be located at Fanama City, Fla., a basic school at Macon, Ga., and advanced schools at Albany, Ga., and at Dothan, Ala. To make the final and official recommendations of the sites, the CCAC secured the appointment of a War Department board early in December 1940. Late in January 1941 this board, which consisted of representatives of the Buildings and Grounds Division, OCAC, the Training and Operations Division, CCAC, and the Corps of Engineers, approved the sites which had been offered by the training centers; on 7 March the CCAG

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reported that these sites had been approved by the War Department and that they would be developed.

In expanding the training fields in areas close to the Facific coast, the CCAC encountered the opposition of Lt. Gen. D. C. Emmons, Commanding General of the GHQ Air Force. General Emmons protested on 20 March 1941 that training fields which could not be evacuated in time of war without serious disruption of training should be located only in the interior of the country. The Plans Division, OCAC, agreed in principle with General Emmons but was unwilling to deny the $tr_{\rm g}$ ining activities the mild climate of the Southe, st, Gulf coest, and Facific coast. In an emergency it held that training activities could be diverted to those of the three areas not under attack; it thought it improbable that there would be a threat to more than one of the sea frontiers at the same time.⁴²

Expedition of the 12,000-pilot program required the new flying schools to be operational by June 1941 and the gunnery schools by July 1941.⁴³ All prohibitions on runways and landing mats were relaxed, and Congress appropriated funds for such facilities at the new fields on 17 March.⁴⁴

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^{*}Training began early in June 1941 at Cochran Field, Macon, Ga.; Luke Field, Fhoenix, Ariz.; Mather Field, Sacramento, Calif.; Minter Field, Bakersfield, Calif.; and Gardner Field, Taft, Galif., Turner Field, Albany, Ga.; was not ready for training until August 1941. (Hist. of the AAF Pilot School /Easio7, Cochran Fld, Activation to 7 Dec.1941,v.1, p. 11, in AFSHO 281.64-1, v. 1; Hist. of Luke Fld, Activation to 8 Dec 41, v.1, p. 18, in AFSHO 285.79-1, v.1; Hist. of Mather Fld, Jan 39 to 7 Dec 41, p. 7, in AFSHO 286.24-1; in The AAF Filot School /Easio/Minter Fld, 30 Apr 41 to 7 Dec 41, p. 29, in AFSHO 286.46-1;Hist. West Coast ACTC, 8 Jul 40 to 7 Dec 41, v.1, p.206; Hist. Turner Fld, 15 May 41 to 7 Dec 41, v.1, Sect.4, pp. 1-25; Hist. Foster Fld, 12 Cct 40 to 1 Mar. 44, v.1, p. 51 in AFSHO 283.21-1, v.1; Hist. AAF Flexible Gunnery School,Las Vegas, 1 Jan 39 to 7 Dec 41, v.1, passim; in AFSHO 281.64-1, v.1; <u>ibid</u>.,8 Dec 41 to 1 Jan 43, v.1, p.1, in AFSHO 285,54-2, v.1; Hist. AAF Flexible Gunnery Sch, Tyndall Fld, 1 Jan 39 to 7 Dec. 41, v.1, passim; Hist. AAF FFF6, 1 Jan 39 to 7 Dec 41, v.1, pp. 200-203, 222-223.) Inclement weather delayed the construction at Foster Field, Victoria, Tex., and training did not begin there until late in September 1941. Difficulties in securing the use of the gunnery ranges at Las Vegas, Nev., and Tyndall Field, Fla., delayed the beginning of flexible gunnery training at those stations until December 1941 and March 1942 respectively.

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As part of the expanded pilot training program, the OCAC decided to use three enlarged cadet reception centers instead of the five centers for which funds had been appropriated on 24 September 1940.⁴⁵ On 7 December it directed each training center to submit recommendations for the location of one cadet reception center. Maxwell, Moffett, and Kelly Fields were recommended, and designations of centers at these fields were approved by the War Department on 21 February 1941. These reception centers actually opened at Maxwell in September 1941, at Kelly in November 1941, and at Santa Ana, Calif. (instead of Moffett) in February 1942.⁴⁶

Additional civil contract schools were also needed to train 12,000 pilots a year. The 7,000-pilot program had dealt with no new civil contractors, but the nine existing contractors could not manage another similar expansion. In June 1940, therefore, all 38 of the approved civil flying schools of the country were sent a letter outlining the specifications for such government training, and on 27 June the Chief of the Air Corps directed the Air Corps Training Center to prepare a priority list of the interested civil flying schools. On 13 Nov-mber 1940 the OCAC directed the Gulf Coast Training Center, which (being a redesignation of the old Air Corps Training Center) had succeeded to the direction of the civil contract program, to select 11 new contract schools from the priority list. Six of the 11 new schools finally approved by the War Department were located in the Gulf Coast Training Center area; five of these were required to move to sites which were less hazardous for training.^{*} Contract schools in the West Coast Training Center area vere approved at

*Only the school at Oklahoma City, Okla., remained in its original location; the other schools were moved from Dallas, Tex., to Brady, Tex.; from Robertson, Mo., to Cuero, Tex.; from Houston to Corsicana, Tex.; from Grand Prairie to Stamford, Tex.; and from Memphis, Tenn., to Fine Bluff,Ark.

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King City, Calif., Tulare, Calif., and Glendale, Ariz. These and the other contract schools in the area were transferred to the jurisdiction of the West Coast Training Center on 15 February 1941. New civil schools in the Southeast Training Center area were approved at Camden, S. C., Arcadia, Fla., Americus, Ga., and Tuskegee, Ala. The first three of these schools were operational in March 1941, but Tuskegee, established for Negro aviation training, did not open until August 1941. Together with the other civil schools in the area, they passed to the control of the Southeast Training Center on 15 January 1941.

Frocurement of Tactical Air Bases

According to the schedule the GHQ Air Force was to be more than doubled in size. Tactical strength was to increase from 25 to 54 combat groups, six new transport groups were to be organized, the existing four combat wings were to be increased to 17, and four new air district (shortly to be redesignated as air forces) headquarters were to be established. The need for rapid expansion meant that there would be no time to build new air bases on a permanent scale such as McChord, MacDill, and Westover. Instead, the War Department announced that existing facilities--military, state, and municipal--would be used to the maximum in the expansion. It directed that all new construction incident to this and other Army expansions would be of a temporary type rather than the permanent construction which had been used during the 1939 augmentation program.

Fursuant to the policy of maximum utilization of existing facilities the War Department offered Jefferson Barracks, St. Louis, Mo., Fort George Wright, Spokane Wash., Fort Douglas, Salt Lake City, Utah, and Fort

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Lawton, Seattle, Wash., to the Air Corps on 18 July 1940, effective at such time as their garrisons could be moved. The OCAC indicated initially that it could use all of the posts except Fort Lawton.⁵⁰ This post was believed to be located too far from the municipal air-ort in Seattle to be suitable for the use of a tactical group.⁵¹

The immediate task confronting the Air Corps was to find stations for the tactical groups which had to be moved from Moffett, Maxwell, and Barksdale in order that those stations could be used for flying training. After several plans for the evacuation of Maxwell and Moffett had been considered, it was finally decided to move the heavy bombardment group from Hamilton Field to the municipal airport at Salt Lake City, Utah, and to replace it with the two pursuit groups and the observation squadron from Moffett. The composite group which had served as the test organization of the Air Corps Tactical School at Maxwell was to be moved to Orlando, 52 Fla., and the Air Corps Tactical School was to be temporgrily inactivated. During July 1940 the Air Corps accordingly secured leases on the Salt Lake City and Orlando municipal airports. Request was made for the immediate transfer of Fort Douglas to the Air Corps in August, and on 20 September this transfer was formally accomplished. On 20 August construction of an Army cantonment was begun at the Salt Lake City airdrone lease, and early in September the heavy bombardment group from Hamilton was moved to quarters at Fort Douglas. In January 1941 a part of the Air Corps troops was shifted to the new cantonment at the airdrome lease, but the Air Corps continued to occupy Fort Douglas until December 1941 when it was returned to the control of the IX Corps Area.55 The composite group was transferred

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from Maxwell to the Orlando airdrome lease in September 1940, and during the same month the units from Moffett were moved to Hamilton. Early in October 1940 the light bembardment units at Barksdale were moved to tent shelter at Savannah, Ga., pending the construction of a cantonment at the Hunter Field leasehold. One light bembardment squadron was quartered in tents at Lawson Field, Fort Benning, Ga., in order to train with 57the ground troops there.

Selection of sites for the new stations required under the 54-group activation program began on a planning basis in June 1940. The Flans Division, OCAC, drew up a tentative list of stations for the new units and submitted The list was passed on to the War Department on 18 58 it on 15 June. June, and, in order to make a detailed investigation of sites, the Plans Division recommended that a board of officers consisting of representatives from the GHQ Air Force, the Training and Operations Division, CCAC, and the Buildings and Grounds Division, OCAC, should be set up. By 2 July a revised list of sites had been drawn up to meet War Department wishes, with the understanding in the OCAC that the list was tentative in nature and designed merely to commit the General Staff to a general The CCAC, however, was not to he allowed the program of activation. active control of the site selection procedure which it had contemplated. The Assistant Chief of Staff, G-4, initiated the action looking toward the appointment of site boards on 12 July. His instructions to the three boards which were to determine sites in the East, the South, and the West were exceedingly general: they were to determine the availability of government- or state-owned facilities, the location of these facilities with relation to population centers, full data necessary for leasing

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purposes, technical facilities already available, utilities to be made available, the availability of building areas, the extent of financial or other assistance obtainable from local authorities, and, last on the list, the general suitability of the field for an Air Corps station.⁶¹ The three beards, as they were set up on 18 July, contained an officer designated by the War Department General Staff, an officer from the GHQ Air force, and an officer from the Office of the Quartermaster General.⁶²

These boards, as they were set up by the Mar Department, led to numerous difficultics. All of them were headed by officers who were not from the Air Corps. 63 Colonel Willis H. Hals, the GHQ Air Force representative on the board which had curveyed the South, reported in 1941 that such an officer had either to be "merely a puzzled and confused figure-head" or else he had to assume an active role which might lead to clashes of personalities on the board. Colonel Hale thought that such boards had made a "poor impression" on the civil authorities with which they had consulted. In his opinion, it was just as intelligent to have a Const Artillery Corps officer in charge of an Air Corps board as it would be to have an Air Corrs officer in charge of the celection of sites for remount depots. Colonel Hale also pointed out that a lack of specific instructions had resulted in many findings that "so and so " would be satisfactory "if and when co and so" was accomplished. The lack of a direct representative of the Chief of the Air Corps on the boards meant that his office, in passing on the board recommendations, had little data other than that furnished in the often imperfect board reports. The CCAC generally observed the opinion of the GHQ Air Force member and based its findings on it.65

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The slowness of the boards in revorting to the War Department caused delay in locating the new stations. Brigadier General R. C. Moore, Assistant Chief of Staff, G-4, at length directed on 8 August that some sort of an answer should be got from the boards which had not reported, 17 August a conference in the Flans Division, OCAC, attended by General Marshall, General Arnold, and General Moore, made a final list of the new stations together with the designations of the units which were to be On the basis of this list the Plans Division assigned located at them. construction priorities on 18 September to the municipal airports. * Later, Baton Rouge, La., and Hartford, Conn. were added to the program, but during December it was decided to move the Air Corps project from Hartford to Windsor Locks, Conn. During the same month the CHQ Air Force found objections to the site of the airrort at Yakima, Wash., and the OCAC secured the movement of the project from Yakima to Fendleton, Ore., where 6**9** flying conditions were less hazardous.

Site board records were passed to the OCAC as soon as they were received in the War Department, and after approval there they were sent back to the General Staff. After this approval the Quartermaster Corps was directed to start negotiations for leasing. The standard lease form, a form not easily adapted to Air Corps requirements, secured only that rart of the airfields necessary for erection of an Army cantonment, contained an agreement that the Army would have the use of the runways and

*Salt Lake City, Utah, Orlando, Fla., Tampa, Fla. (Drew Field), Tallahassee, Fla., Savannah, Ga., Louisville, Ky., West Falm Beach, Fla., New Orleans, La., Tucson, Ariz., Albuquerque, N. Mex., Portland, Ore., Oklahoma City, Okla., Bangor, Me., Ft. Wayne, Ind., Jackson, Miss., Manchester, City, Okla., Bangor, Me., Ft. Wayne, Ind., Jackson, Miss., Manchester, N. H., Meridian, Miss., Everett, Wash., Yakima, Wash., Spokane, Wash., N. H., Meridian, Miss., Everett, Wash., Yakima, Wash., Spokane, Wash., Fresno, Calif., Charlotte, N. C., Augusta, Ga., and Boise, Idaho. Fresno, Calif., Gen. B. K. Yount, Chief, Flans Div, OCAC, to Chief, B&G Div, (R&R, Brig. Gen. B. K. Yount, Chief, Flans Div, OCAC, to Chief, B&G Div, subj: Construction Priorities for Completion of Airdromes, 18 Sept 40, in AFSHO 322.0824, OCAC Flans.)

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landing field, and included such miscellaneous agreements as the site boards had been able to secure. Generally the Air Corrs sought to limit civil use of the fields to scheduled airliners and to other privately 71 owned aircraft equipped with two-way radio. Several of the first leases showed defects which made renegotiation or amendment necessary. Early in November 1940, for example, it was discovered that few of the leases contained provisions against student flying. At Albuquerque the lease prohibited student flying only if the aircraft were not equipped with two-Some of the leases did not provide enough room for building way radio. the facilities needed by the Air Corps. At Albuquerque the lease executed in December 1940 assigned the government only 18 acres out of the 898 73 acres on the airfield. The process of forwarding leases through the Office of the Quartermaster General cost much valuable time, especially since many of the leases so laboriously negotiated had to be revised after they were inspected by the OCAC.

Since few of these municipal airfields were immediately suit, ble for the use of tactical units, the CCAC sought the assistance of the WPA and later of the CAA in building them up to the proper operational standards. Understanding that the WPA intended to liberalize its regulations governing application of its funds to military purposes, General Arnold asked on 6 June 1940 for assistance in improving a number of stations needed both for defense and for the 7,000-pilot program.⁷⁵ On 24 June the CCAC furnished the WPA a tentative list of stations which it expected to be selected for combat groups under the 54-combat-group program.⁶⁰ On the same day the Plans Division, CCAC, designated a liaison officer to work on projects

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In the fall of 1940 the CCAC also supported requiring WPA assistance. legislation which was designed to appropriate funds to the CAA for the development of a national system of airdromes. In October 1940 the CAA, with the blessings of the War Department, received \$40,000,000 with which it was charged to construct, improve, and regain not more than 250 public airports to be designated by the Secretaries of the War and Navy By December a list of first priority airdromes had been Departments. discussed and approved in joint conferences between the Army, Navy, and the CAA, and by March 1941 the last of these funds had been allocated. To complete pressing needs, Congress appropriated another \$94,977,750 to the CAA in June 1941 and raised the ceiling on the number of airports to be improved to 399. On 25 August 1941 the CAA received an additional \$5,500,000 to round out developmental work already started. In the expenditure of these funds the CCAC sought to develop airports in each of the strategic areas which were needed for defense, to improve the fields needed for ferrying, to build up the airports at which tactical units were to be located, and to build new fields to accommodate civilian flying displaced from airports by military use.

According to the planning the only military funds which were to be necessary in the development of the new tactical fields would be those funds needed to build the military housing and the limited technical facilities (one shop hangar per group) allowed. Such funds were appropriated on 26 June for the 41-group expansion and on 8 October for the 54group program. Though General Marshall had directed early in November that the funds be released without delay, they were not made available until December 1940.⁸³ Once construction was started, additional expenses due to rising costs of constructional materials, additional requirements

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not originally contemplated, and the necessity for government purchase of several of the airfields (thus making them ineligible for CAA grants) made it necessary for the War Department to request deficiency appropriations. These deficit appropriations--including \$17,485,000 to complete Air Corps . housing and additional sums for runways at Fortland, Everett, Hartford, West Palm Beach, Fort Wayne, Charlotte, and East Baton Rouge--were ap-84 proved on 17 March 1941.

By the fall of 1940 it had become apparent that the Quartermaster Corps was overtaxed by the volume of construction which was being placed upon it. To speed up the lagging Air Corps construction the Assistant Chief of Staff, G-4, accrdingly asked that consideration be given to the transfer of Air Corps construction to the Corps of Engineers. Colonel F. M. Kennedy, Chief, Buildings and Grounds Division, OCAC, initially opposed the proposed transfer. Although he admitted that the Air Corps construction program seemed to be two months behind schedule, he blamed most of the delay upon the slowness in the selection of sites. Since the Quartermaster Corps had already made a number of the project estirates for construction, he feared that to transfer the effort would further General Marshall also professed to have had delay the whole program. miegivings as to possible delays, but on 19 November 1940 he directed that all Air Corps construction should be transferred to the Corps of Engineers as quickly as rossible. The transfer of all but a few of the projects underway was accomplished gradually, sceningly without causing any considerable delay.⁸⁶

Air Corps plans for the occupation of the new stations indicated in January 1941 that Orlando, Salt Lake City, and Savannah were needed

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immediately; that West Palm Beach would be needed in February; that Charlotte a'd Tallahacsee would be needed in March; that New Orleans, Jackson, Meridian, Augusta, Baton Rouge, Spokane, Portland, Everatt, Fresno, Oklahoma City, Tucson, and Albuquerque would be needed for occupancy in April; and that Bangor, Manchester, Fendleton, and Boise would be needed in May.⁸⁷ Because of the delays in the initiation of construction General Emmons had predicted in December 1940 that the construction program would be a "serious bottleneck" unless it could be expedited "to the greatest possible degree."⁸⁸

Though there were a number of delays in the anticipated dates of occupation of the new stations, the Air Corps activition program was sufficiently flexible to prevent construction difficulties from becoming a "serious bottleneck." On 1 January 1941 the facilities at Orlando and Salt Lake City were nearing completion and work was underway at Albuquerque, Boise (Gowen Field), Charlotte (Morris Field), Tampa (Drew Field), Jackson, Savannah (Hunter Field), New Orleans, Oklahoma City (Will Rogers Field), Fortland, Iouisville (Bowman Field), Tallahassee (Dale Mabry Field), Tucson (Davis-Monthan Field), and lest Falm Beach (Morrison Field). Hunter Field at Savannah was quickly brought to completion: with construction expedited on a cost-plus a fixed-fee basis, its cantonment was virtually complete in late January 1941, less than 90 days after the original ground had been broken. ⁹⁰ The facilities at West Falm Feach were accerted on 27 February, and the cantonment at Bowran Field, Iouisville, 92 By June 1941 most of these fields was marked complete on 20 March. were operational, and construction difficulties were minor. 93 Of the group of airports only New Orleans offered a serious problem to the

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expansion program. The New Crleans municipal airport had been enthusiastically recommended by the site board as a base for a heavy bombardment group, an excellent cantonment had been constructed, and a heavy bombardment group had been transferred to the field with little difficulty. The runways on the municipal field, however, were only 3,400 feet long, and the heavy group found it immossible to conduct effective operational training from the field. Despite these difficulties the group remained there until Docember 1941, and at that time the field was turned to other uses.⁹⁴

Construction at the remaining airfields in the program met with somewhat more difficulty. Among the less serious problems were those encountered at Faine Field, Fverett, W.sh., where construction was delayed by labor strikes. By housing incoming troops in tents it was still possible to receive a pursuit group there in June. Key Field, Meridian, Miss., was delayed from 30 to 45 days due to slowness in acquisition of outlying areas not contemplated by the site board and by a shortage of skilled labor and critical materials. ⁹⁶ At Harding Field, Baton Rouge, La., there were in removing high tension wires and in grading and drainage, dillico both of which tasks had been undertaken by local authorities. The field was not able to receive its fursuit group until October 1941. Fendleton, Ore., was ready to receive its medium bombardment group in June 1941, but in May 1942 , series of heavy bomber accidents caused by a depression in the middle of the runway led to a decision to abandon the field for such flying. Daniel Field, Augusta, Ga., was completed approximately on schedule and vas used during the Carolina maneuvers in the fall of 1941. In 1942, however, it was decided that the field was too small for tactical training, and the Air Corps cantonment was diverted to other purposes.

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The municipal airports at Freeno, Calif., and Ft. Wayne, Ind., proved to be unsuitable for Air Corps use and substitute facilities had to be developed. The municipal airrort at Fresno was too cramped for proper training, so that the Air Corrs had to secure the use of the new CAA airport which was to be developed with CAA funds. Disgruntled land owners in the vicinity, some protecting that the location of an Army field near Fresno "would be an invitation to invading planes to bomb and destroy" the city, held up construction at the new site with court orders. A lack of funds encountered in July further delayed construction, but Hammer Field was ready to house its tactical units in August 1941. These medium bombardment squadrons used the runways at nearby Chandler Field until Hammer was ready for flying in November 1941. At Ft. Wayne, Ind., local pressure by civilian flyers and the deterioration of the runways at the municipal airport led the Air Corps to recommend that it be allowed to take over the new airfield being developed for the city by the CAA. This solution was approved by the War Department, and Baer Field was ready 101 At Windsor Locks, Conn., the initiation for occupancy in October 1941. of construction was delayed by the late decision to move the airfield project from Hartford to the new CAA facility, but facilities at the new field were ready for a pursuit group when it arrived in August.

Difficulties with local authorities led to government purchase of the municipal airfields at Spokane, Wash., and Bangor, Me. At Spokane the OCAC first planned to lease Sunset Field (later named Gaiger Field) which was being developed with WFA and CAA funds. The local county commissioners, glad at first to receive an Army post, later showed interest in making

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commercial concessions for the use of the field. In August 1940, hovever, the county commissioners had offered the field to the United States by deed, and in January 1941 General Arnold requested that the field be so secured. A deed was erecuted on 15 January 1941, and after further improve-103 ment it became operational in July 1941. In the original lease on Dow Field, Bangor, Me., the city had agreed to maintain the runways, but by April 1941 it had become reluctant to spend its money for maintaining a field used principally by military aircraft. Several of the runways, moreover, had been so relocated as to bear little semblance to the original field. The Air Corps accordingly proposed to arend the original lease in order to clear Bangor of its obligations, but both the Quartermaster Corps and The Judge Advocate General considered that such an amendment would incur new obligations for the government contrary to its interests. The city of Bangor, on its part, flatly refused to maintain the runways, and the local Air Corps units were not able to use Army funds for the purcose. In April 1942 the AAF finally resolved the cause for conflict by securing a quit-claim deed to the whole field. Despite this lingering controversy, the base was ready for the use by tactical units in August 1941. Although there was no lack of cooperation on the part of the local authorities, the War Department secured the title to the 480 acre tract comprising Drew Field, Tampa, Fla., early in 1941. Drew Field, which continued to be used by the borbardment group from MacDill until February 1941, functioned as a sub-base of MacDill until 15 September 105 1941 when it became a separate post.

The acquisition and development of these fields completed the requirement of the 54-group program for tactical stations, but installations had

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also to be provided for the new air district, command, and wing headquarters which were activated to control the tactical gr-ups. The headquarters of the GHQ Air Force--shortly afterwards to be redesignated as the Air Force Combat Command--was moved from Langley to Bolling Field in early March 1941.106 Air Corps policy dictated that each of the new wing headquarters should be located at one of the tactical stations, but the headquarters of the Northeast, Southeast, Northwest, and Southwest Air Districts -- redesignate? as air forces on 26 March 1941--were larger and more important organizations requiring separate installations. Notwithstanding the announced policy, the headquarters of the Northe st Air District (First Air Force) was located, supposedly as only a temporary measure, at Mitchel Field. The headquarters of the Southeast Air District (Third Air Force) was established in the National Guard Armory at Tampa, Fla., and the headquarters of the Southwest Air District (Fourth Air Force) was located in leased space at Riverside, Calif. Because of the slow evacuation of Fort George Wright by its ground units, the headquarters of the Northwest Air District (Second Air Force) was activated in the National Guard Barracks at Felts Field, Spokane, Wash., and remained there until it took occupancy of Fort George Wright in March 1941. Headquarters of the I Interceptor Command was located at Mitchel at its formation, headquarters of the III Interceptor Command was opened at Drew Field, and headquarters of the IV Interceptor Command was located in leared space 110 at Riverside, Calif. Fort Lewton, Seattle, Wash., was transferred to the Air Corps in May 1941 for use of the headquarters of the II Interceptor 113 Command.

Use of the municipal airrorts by both military and civilian aircraft

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led to numerous operational hazards and lowered military training efficiency. The Air Corps had sought to limit civilian operations at the leased airports to scheduled air liners and aircraft equipped with two-way radio. It had sought to secure the development of alternate airports for civil Despite these efforts traffic so displaced with CAA and WFA funds. there were almost continuous reports of hazardous conditions, and General Emmons warned that "serious conditions" would result unless something was done to remove unskilled civilian pilots from the fields used by the Air Corps. Although the Air Corps had authority in most of its leases to prohibit unscheduled flying, it thought that such blanket action would be unwise. It preferred to establish rules looking toward an intelligent 114 regulation of civil flying. After conferences with the CAA and WPA, however, the (~: Cannounced in February 1941 that thenceforth its tactical units would be located on municipal aircorts only when they could be leased in their entirety together with an adjacent building area. It was also decided that training fields and air devots should be government owned installations.

To bring order out of the increasingly chaotic system of air navigation an Interdepartmental Air Traffic Control Board was established by the Army, Navy, and CAA. This board met first on 7 April 1941 and agreed to investigate flying difficulties at sore 10 localities throughout the country. Field hearings occupied the board from 9 April to 17 April, and on 29 April it recommended that a single federal authority have the authority to make flying rules and to prevent the erection of hazards on the nation's airways.¹¹⁶ The CCAC immediately announced that it would welcome

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such federal control and urged the creation of a single authority to en-The recommendations of the board were also ap-117 force safety in flight. proved by the Mar Department, the Navy, and the CAA, but no such sweeping centrol of civil flying was made until the beginning of the war in December 1941. The Mar Department, however, directed the CCAC to continue participation in the Interdepartmental Air Traffic Control Board and to be Prior to 7 December 1941 this board held 39 118 bound by its decisions. meetings dealing with such matters as air space reservations, establishment of danger areas for flying, changes in civil air regulations, and the location of Army and Navy air installations.

The OCAC and the War Department also made determined efforts to profit

from the mistakes made during the selection and occupation of the civil airports. In April 1941 the Chief of Engineers issued specific instructions to his division engineers to consider a list of specified aircraft characteristics prior to making layout plans for air installations, and in July 1941 the Buildings and Grounds Division, OCAC, printed detailed instruc-Other improvements in procedure which 120 tions for use of air site boards. resulted from the experiences of the selection of these combat stations were introduced into the programs which were to follow.

Construction of Air Derots

The authorization of additional combat and training aircraft for the 54-combat-group and 12,000-pilot programs required more maintenance and repair than could be accomplished by the six air depots operating and under construction in January 1941. The four old depots had a combined capacity for overhauling 800 engines a month, and Mobile and Ogden were expected to provide maintenance for an additional 500 engines each month. It was

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octimated, however, that the central expansion and the additional training planes would necessitate an overhaul on at least 20,000 engines a year. To most this shortage, Major General G. H. Erett, Acting Chief of the Air Corps, estimated that three additional depots with a combined monthly capacity of 900 engines would be required. This would allow a theoretical annual maintenance of 26,400 engines, but with the 20 per cent reduction in theoretical capacity which experience had indicated as reasonable due to materiel shortages, labor scarcities, and other unavoidable delays, the depots would be actually capable of maintaining only 20,120 engines a year.

General Brott requested funds to provide for the three new air depots on 17 February 1941. He recommended that one of the depots be located in the general vicinity of Atlanta, Ga., one in the Albany-Syracuse area of New York, and one in the Oklahoma City-Tulsa area of Cklahoma. The location of the additional depot in the southeast was based on the premise that the Mobile Air Depot would be used primarily to serve the Caribbean air forces. The additional air depot in the northeast was made necessary by the impossibility of expanding Middletown. Location of a depot in the midwest would allow it to assume the overflow of the other depots. Congress, in legislation approved on 17 March 1941, made \$45,000,C00 available for the construction of the three depots.

At a conference between representatives of the Assistant Chief of Staff, G-4, the Office of Chief Engineer, and the Buildings and Grounds Division, CCAC, it was agreed on 4 March 1941 that the OCAC should ask for War Department orders establishing a board of officers to inspect sites for the derots. The Chief of Air Corps, moreover, was to instruct the

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boards on site requirements and he was to review their completed reports prior to final consideration of them by the G-3 and G-4 Divisions of the 125 WDGS. Site boards were established in March and during the following month they inspected (among other sites) Oklahoma City on 9 March, Macon, Ga., on 18 March, and Rome, N. Y., on 3 April. Both Oklahoma City and Macon offered free land for the derots, and Rome offered certain free utilities including 1,000,000 gallons of water a day. For the midwestern depot Tulsa, Okla., Wichita, Kans., and Oklahoma City were considered, but Tulsa and Wichita were ruled out because their defense industries were already taxing their local labor supply. In Georgia the choice of sites raridly narrowed down to locations near Atlanta and Macon; often it had been estimated that the derot could be built near Macon for less money and six months faster, it was decided to locate the depot at the Wellston site near Macon. Each of the sites selected had disadvantages: Rome had a handicap of a sub-zero climate during the winter; Oclahoma City had intense summer heat, inadequate housing facilities, and a serious competition for skilled labor; the Wellston site was on swampy land, proximate to no immediate town, and was in an area of limited skilled labor supply. Despite these disadvantages, the War Department announced its acceptance of the Oklahoma City site on 8 April, of the Wellston site on 14 June, and of the Rome site on 25 June.

Most of the prime contracts at the new air depots were let on a costplus a fixed-fee basis, and the depots were at least partly operational late in 1942. Oklahoma City was first used by the Air Corps in August 1942 although it was still incomplete. Construction began at the Wellston site, subsequently named the Warner Robins Air Depot, in September 1941,

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and the two principal contracts were completed on 31 August 1942. Ground at Rome was broken on 2 August 1941, and, despite unfavorable weather during the winter, the original construction contracts had been completed by "ovember 1942.

Acquisition of Bombing and Gunnery Ranges

The expansion of specialized flying and tactical training made the acquisition of additional bombing and gunnery ranges an urgent matter. During the 1939 augmentation the CCAC had planned on a basis of one local range for each of its combat bases, but in 1940 this policy was somewhat extended. General Arnold announced in June 1940 that proper tactical training demanded both the continuous use of local practice ranges adjacent to the combat bases and the periodic use of larger general ranges for bombing 128 with live bombs and aerial gunnery training. In actuality, especially in the western United States where large local ranges could be obtained, the difference between the "local" and the "general" ranges was sometimes nebulous.

Considerations of safety demended that the general ranges be large reservations closed to the public, and since it was unsafe for armed aircraft to fly over civilian areas, these general ranges required an airfield within their confines. During the last stages of the 1939 augmentation a reconnaissance had been made of tracts of land near Tonopah, Nev., Wendover, Utah, and Arlington, Ore., in an effort to secure local practice ranges for McChord Field. During the spring and summer of 1940 negotiations had been opened to secure the three tracts, about 90 per cent of 129 which was public domain, for use as general ranges. The 60 x 90 mile area at Tonopah was transferred to the War Department on 29 October 1940,

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but the clearance of the numerous scattered claims of cattlemen, homesteaders, and miners delayed the use of the Tonorah range until December 1941. In June 1941, however, the range was divided between the GHQ Air Force and the West Coast Air Corps Training Center for training uses. Because of grazing commitments the Interior Department in October 1940 was willing to relcace only 1,500,000 acres in western Utah for the Wendover Range. This area was further reduced in effective size by an agreement with the CAA which prevented bombing within five miles of the civil airways crossing the range. Settlement of private clairs and the building of an airfield at Wendover delayed Air Corps use of the range until late in 1941. Possession was assumed at the Arlington, Ore., site in April 1941, but the facilities at the Boardman Range were not ready 132 until late in 1941. Late in the same year the War Department also secured the transfer of a 60 x 30 mile tract of public domain near Alamogordo-Las Cruces, N. Mex., and the Alamogordo (also called the White Sands) Range was developed during early 1942.¹³³ In July 1940 the Chief of the Air Corps directed the GHQ Air Force to appoint a board of officers for the location of bombing and gunnery range sites in the eastern United States. The GHQ Air Force subsequently recommended tracts of land near Avon Park, Fla., and Myrtle Beach, S. C. The two ranges became operational during the summer of 1942.

The OCAC treated the acquisition of the local practice ranges as a lower echelon matter as far as it w_{a} s permitted to do so. In December 1940 it requested funds to lease 30 such ranges, each to be of approximately 5,000 acres and to be located adjacent to the combat airdromes then without ranges. The Construction Branch, G-4, protested the necessity

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for both local and general ranges, but the OCAC insisted that the local practice ranges for air-to-ground gunnery and bombing with practice bombs in no way relieved the necessity for larger demolition and aerial gunnery 136 ranges. Congress appropriated the desired funds on 17 March 1941, and the OCAC attempted to secure the allotment of the money directly to its subordinate commanders who would be able to secure the best bargains. The Quartermaster Corps was unwilling to cede its leasing functions, but the Corps of Engineers permitted the allotment of construction funds directly 137 to the GHQ Air Force for expenditure. The OCAC accordingly placed the burden of locating these ranges directly upon the GHQ Air Force and upon its successor, the Air Force Combat Command, When the lather protested in July that the original site boards had been derelict in not having selected the sites, the OCAC issued supplemental instructions making such action 138 mandatory for future site boards.

Acquisition of these local ranges was usually worked out by the base commanders who needed the ranges. In the Second Air Force local ranges 139 were secured at Ephrata, Hoses Lake, and Ritzville, Wash. By November 1942 eleven other local ranges had been obtained.^{*} Delays in the procurement and development of these ranges, however, seriously impeded the training of tactical units during 1941. Throughout most of this critical year, for example, the tactical units of the Second and Fourth Air Forces shared the crowded ranges at Muroc Lake for all of their bombing practice.¹⁴⁰

Training center activities, which took over old Mather Field and a part of the Tonopah range, further reduced the areas available to the

*For Selfridge at Eay City, Oscoda, and Harbor Beach, Mich.; for Iangley at Cape Henlopen, Del.; for MacDill at East Mullet Island, Fla.; for Harding at Grand Island, La.; for Will Rogers at Great Salt Flains, Ckla.; for "unter at Harris Neck, Ga.; for Key at Fachuta, Miss.; for Westover at Quabbin Reserveir, Mass.; and for Bowman at Salt River, Ky. (AAF, Station Lict, 1 Drc 42.)

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tactical organizations, but even at that the three training centers were pressed for ranges. During 1940 and 1941 the War Department, although faced with severe opposition from local sportsmen and fishing interests, acquired Matagorda Island and the adjoining Matagorda Feninsula on the Texas coast for use as ranges for cadet training at Ellington, Barksdale, and later Foster Field. A 26,695 acre area on the Florida coast in the vicinity of Fanama City was rurchased (after a long legal proceedings which increased land costs from an estimated \$225,000 to 537,916) as the range area for the flexible gunnery school to be located at Tyndall Field. The gunnery school at Las Vegas, Nev., made use of a part of the Tonopah range, but developmental problems permitted no effective use of the area until late in December 1941. In locating ranges for luke Field the Air Corps encountered the same problems which it hed met in clearing the other western ranges: suitable desert lands were available in the rublic domain between Gila Bend and Ajo in southern Arizona, but the majority of the area had been leased to cattlemen under the terms of the Taylor Grazing Act. On 5 September 1941 the President withdrew the lands from rublic use by executive order, but most of the grazing permits which had been issued by the Grazing Service of the Department of Interior had just been renewed in May 1941 for periods running up to 10 years duration. Only one of the permits had a clause permitting revocation, and the stockmen, although notified that firing would commence on 30 September, simply refused to evacuate the lands, which they were in the process of grazing, and began rolitical agitation. Nothing could be done to clear the range areas until 26 December 1941 when a court order $w_{0.8}$ secured to that effect. Consequently the first pilots to be trained at Luke Field had no

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gunnery and bombing training.

2. The 34-Combat-Group Fromman

Continued Axis successes during the surner and early winter of 1940 led to another revision of estimated enemy capabilities and indicated that a victorious Axis could have both naval supremacy and an ability to oper-142 ate a force of 5,000 combat aircraft in South America. Accordingly the Mar Department on 14 March 1941 directed the Air Corps to complete the 54-group program "at the earliest practicable date" and immediately thereafter to undertake an expansion to 84 combat groups with 7,799 tactical aircraft. On 18 February 1941 the Chief of Staff had directed the Chief of the Air Corps to increase pilot training to 30,000 per year and technician training to 100,000 per year. These three expansions were to comprise the Army's second aviation objective. No definite time limit was stirulated for the accomplishment of the second aviation objective, and it was no more than well under way on 7 Tecember 1941. Expansion of the facilities for the programs was not completed when the 84-combat-group program lost its role in hemispheric defense and become the beginning program for the development of offensive air power needed for the successful termination of World Mar II.

Expansion of Training Facilities. Flanning for the expansion of flying training to a rate of 30,000 pilots per year had been initiated well in advance of the actual directive for such an increment. On 30 October 1940 the War Department had directed the Chief of the Air Corps to prepare a long range plan for the development of civil airfields as potential training installations for a 30,000-pilot rate.¹⁴⁴ The OCAS, however, had been unvilling to make such plans because of its exteriences at Stockton

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and Montgerery. On 17 December 1940 the Chief of the Air Corps had nevertheless directed the training centers to prepare plans for training at such a rate. The same standards of training were to be met, one civil centract school in each center was to be coverted into a contract basic school, and the centers were directed to recommend possible sites for 146 new flying fields.

In February 1941 Erigadier General Davanyort Johnson, Chief, Training and Operations Division, CCAC, indicated that the time was appropriate for the appointment of a War Department site board for the inspection of sites which had been recommended.¹⁴⁷ Early in March, however, a conference of representatives of the Assistant Chief of Staff, G-4, the Buildings and Grounds Division, CCAC, and the Office of the Chief of Engineers decided that the responsibility for site selection should be passed formally to the training centers. Each center was to appoint a board consisting of an Air Corps officer, an officer from the Corps of Engineers, and a Medical Corps officer. Their reports were to go to the Chief of Air Corps for review and thence to the War Department General Staff for final action.¹⁴⁸ The Chief of Engineers indicated that he wished his representative on the board to be the District Engineer of the area concerned.¹⁴⁹ On 26 March 1941 the War Department formally charged the training centers to locate and recommend the sites for development.¹⁵⁰

For the 30,000-pilot expansion the OCAC originally estimated that 36 additional flying school units, including three new gunnery school units and an additional six replacement center units, would 'e needed. More than one unit might be located at the same station. The units were subsequently allocated to 20 new flying fields, one new gunnery school, and

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one replacement cen er. The training center commanders approved this application of effort at a conference held in Marhington in March 1941. Funds for the 36 flying school units and six replacement center units were included in the budget estimates and they were appropriated in legislation approved on 5 April 1941.

During the 30,000-pilot expansion the Air Corrs was also forced to find duplicate facilities for Moffett Field. In January 1941 a Navy site boord, charged to locate lighter-than-air facilities in the San Francisco Bay area, visited Moffett. Because of this visit, Erigadier General H. W. Harms, the commanding general of the West Coast Training Center, wished a definite understanding as to the future of the field before additional Air Corps funds were excended there. As a result of the discussions which followed, General Arnold proposed that Moffett could be turned back to the Navy, if the Air Corps received \$8,000,000, including en item of \$1,509,000 used at other stations because Moffett had been inadequate to receive the tactical units which should have gone there. In April 1941 Brisadier General Carl Staatz, Chief, Flans Division, OCAC, told the Navy General Board that Moffett could be returned provided there was a real strategic need for it and provided that the Air Corps could be 154 given approximately \$6,000,000 in return. Later in the same month Admiral H. R. Stark, in a versonal note to General Marshall, indicated that the Navy would welcome the return of Moffett. General Marshall, after consultation with the CCAC, agreed that the base could be returned about eight months after the Air Corps had been given funds for substitute facilities. He was willing to return Moffett to the Navy, but he was just as unwilling to disrupt the Air Corps training program in any way.

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In legislation approved on 16 August 1941 Moffett was transferred to the Navy and the War Department was given \$6,500,000 for the development of a substitute basic flying training station.

Site selection in each of the three centers was becoming difficult because of land scarcity. This situation was so acute in the West Coast Training Center area that one officer protested on 15 June 1941 that the center, in locating new sites, would have to "Go into Northern California, Oregon, or Washington where the rain raineth and all fields so far surveyed will have to have a mat; or go into the deepest desert where every building must be erected not only for men but for officers and not alone to shelter them but to provide a minimum of diversion from work and heat and dirt." To alleviate the shortage of sites the CCAC, on 25 June 1941, changed the centor's eastern boundary from the loSth to the lo3d meridian, thus extending the center over the mesa country of New Mexico and a part of west Texas.¹⁵⁷

Despite some difficulties the three training centers were able to solve their problems.* Under the 7,000- and 12,000-pilot programs the

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^{*}The Gulf Co-st Training Center converted its civil elementary school at Brady, Tex., into a basic school, established new basic schools at Enid, Crla., Shorman and Maco, Tex., new advanced schools at Missien, lubbook, and Midland, Tex. and Lake Charles, La., and a new gunnery school at Harlingen, Tex. The center also secured new civil elementary schools which were opened at Coleman, Tex., Chickasha, Chla., Pallinger, Tex., Uvalde, Tex., and Faris, Tex. These civil schools were approved by the CCAC on 5 June, and on 17 June an additional contract school was arroved for Bonham, Tex. (Hist. AAF Central FTC, 1 Jan. 1939 to 7 Dec. 1941, v. 2, pp. 197-200, 231-238). The West Const Training Center was allowed two new basic schools at LeNoore and Merced, Calif., and advanced schools at Higley, Ariz., Roswell, N. Nex., and Victorville, Calif. The civil school at Ontario, Calif., was to be converted into a basic school. Only one n w civil elementary school -- to be located at Visalia, Calif .-- was approved for the center. (Hist. West Const ACTC, 8 July 1940 to 7 Dec. 1941, v. 1, pp. 152-167, 170.) As a substitute for Moffett Field, it was decided that the aviation cedet reception center formerly allotted to Mof ett should be built at Santa Ana., Calif. (Ibid., v. 1, pp. 174-182.) The Southe-st Training Center Wes permitted to establish new basic schools at Greenville, Miss., Sebring, Fla.,

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sites for new flying schools had all been leased for nominal sums. Since this policy was suproced to have worked hardships in site selection procedures, the OCAC directed in May 1941 that sites could be purchased at appraised valuations if it was thought advantageous. To avoid the ill will of local authorities who had leased their sites, the OCAC urged that land 158

Despite the expedition of cost-plus a fixed-fee contracts, only a part of the new installations were suitable for training during 1941. In the Gulf Coast Training Center area facilities at Ferrin Field, Sherman, Tex., and at the Enid, Okla., basic school were ready for training in December 159 1941, and by May 1942 the last of the schools--Waco, Tex--was operational. In the West Coast Training Center area the fields at Leboore and Merced, Calif., and Williams Field, Higley, Ariz., were ready for training in December 1941 and January 1942, but Victorville, Calif., and Roswell, N. Mex., did not become operational until February and June 1942. The field at Roswell was built with the money received for Moffett. The reception center opened at Santa Ana in February 1942, the headquarters of the center moved to Santa Ana in April 1942, and the basic flying school open-In the Southeast Training Center region 160 ed at Chico in the same month. the basic schools at Greenville, Miss., and Sumter, S. C. (Shaw Field), and the advanced school at Napier Field, Dothan, Ala., were ready for operation in December 1941, the advanced school at Columbus, Miss., began training in January 1942, and ouring February and March 1942 the advanced

*(Continued from page 57) and Sumter, S. C., new advanced schools at Columbus, Miss., Moultrie, Ga., Dothan, Ala., and Valdosta, Ga., and a new flying school for Negro pilots at Tuskegee, Ala. The civil elementary school at Albany, Ga., was to be converted into a basic flying school. The Southeast Training Center also ad ed new civil con ract schools at Avon Fark, Fla., Douglas, Ga., Bennettsville, S. C., Crangeburg, S. C., Helena, Ark., Fla., and Ocala, Fla. (Hist. of AAF Eastern FTD, 1 Jan. 1939 to 7 Dec. 1941. v. 1, pp. 86-98, 226).

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schools at Spence Field, Moultrie, Ga., and Moody Field, Valdosta, Ga., became operational. Construction at Fendricks Field, Sebring, Fla., was delayed by unfavorable soil characteristics and the station was finally completed as a four-engine transition school which began training in March 1942. The Negro flying school at Tuskegee, Ala., was ready for basic training on a make-chift basis in November 1941. The only new Air Corps replacement training center in the program was ordered established at Ellington Field effective on 20 September 1941.

Planning for the expansion of the technical training facilities also antedated the formal War Department approval of the 100,000-technician program. The Air Corps had been allotted funds for two n w technical training stations under the expansion incident to the 54-group program, and late in 1940 the Chief of the Air Corps had directed the Commandant, Air Corrs Technical School, to survey sites for the two schools. In January 1941 the commandant recommended that these two schools be located at The CCAC secured the appoint-163 Biloxi, Miss., and Wichita Falls, Texas. ment of a War Department board to inspect the two sites, and by 18 February 1941 both of them had been arroved for use during the 100,000-technician The OCAC immediately asked the CAA to reserve funds for the exransion. improvement of the municipal airfields at Biloxi and Wichita Falls. Additional funds, needed to secure flying field equipment and organizational equipment for the program, were appropriated on 5 April 1941.

During the spring of 1941 the sites for the new installations were leased, CAA projects were set up for the improvement of the municipal airfields, and during May and June 1941 construction of Army cantonments Was begun. Both of the schools were activated on 16 June 1941, and mechanics training classes began at Keesler Field, Biloxi, on 29 September

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and at Sheppard Field, Wichita Falls, on 13 October. By December 1941 most of the original construction at both posts had been completed. The expansion of technical training also placed a strain on the one technician replacement center available at Jefferson Barracks, Mo. In May 1941 the OCAC accordingly requested authority to build housing for a 10,000man replacement center at Sheppard and for an 8,000-man center at Keesler. ¹⁶⁸ On 6 June the War Decartment approved the proposal, and the two Air Corps Replacement Centers (Technician) were activated effective on 20 September 169

Additional expansions were necessary at the older technical training establishments. In May 1941, for example, Lowry Field received funds to build an airfield--later called Buckley Field--on the bombing range near 170 The congestion of living quarters at Chanute Field and private housing in nearby Rantoul, Ill., caused by greatly expanded training at Chanute, made a movement of the headquarters of the Technical School from Chanute Field advisable. At the creation of the Air Corps Technical Training Command on 26 March 1941, it had been specified that its headquarters were to be located at Chanute only temporarily. During May and June 1941 Brigadier General Rush B. Lincoln at length concluded that Tulsa, Ckla., offered the best prospects for the headquarters location. In August 1941 the War Department approved the chage of station, and on 7 September 1941 the headquarters was opened in leased space at Tulsa.

<u>Construction of Air Depots</u>. To neet the added maintenance and repair requirements of the 30,000-pilot-training expansion, the Air Corps asked for and received on 5 April 1941 an appropriation of 014,000,000 for the construction of two new air depots.¹⁷² In the same month the Plans

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Division, OCAC, requested the Materiel Division, OCAC, to prepare a study of the necessity for additional air depots to meet the maintenance needs of the 84-combat-group program.¹⁷³ This study, forwarded on 2 July, calculated that 19,549 aircraft would be brought into action by the second aviation objective. Some 33,117 units of maintenance and repair work would be an estimated annual commitment, but of this amount about 1,300 aircraft and 3,000 units of work would be outside the continental United States. The Materiel Division estimated that the 11 air depots authorized and in operation would be able to maintain the work load of 30,117 units per year.¹⁷⁴

In June 1941 the OCAC secured the appointment of a War Department site selection board, consisting of a representative of the Air Corps Maintenance Command, a representative of the Buildings and Grounds Division, OCAC, the District Engineers concerned, and a Medical Corps officer, to survey sites in the vicinity of San Bernardino, Calif., and in the Spokane-Everett area of Washington. After inspecting several sites this board on 28 June recommended that one air depot be located at the San Bernardino county airport¹⁷⁶ and in July recommended another site near Spokane.¹⁷⁷ Both of these sites had disadvantages, but they were the best available situated in regions where maintenance was required. The two recommended locations were approved by the War Department, the land on which they were to be built was bought by local authorities, and in the fall of 1941 the sites were donated to the government.¹⁷⁸

Construction of the Spokane Air Depot was authorized on 5 December 1941, and since the depot was considered to be in a defense area, its construction was expedited. By June 1943 the original construction was

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nearly complete, and during the next n with the denot cormenced full scale operations. In March 1942 the original bids for the San Dernardino Air Denot were opened, but it was not until May that construction was begun. Shortages of steel and other critical materials delayed the building effort, and the denot did not become completely operational until early 1944.

Development of Bases for the Combat Groups

In the selection and development of new tactical stations for the E4-group-program the CCAC and the Army Air Forces sought constantly to reredy the mistakes and to improve upon the experiences encountered during the 54-combat-group program. The resultant base expansion was probably the most corefully planned program in the period under consideration. This bace expansion was also the first to be made the direct responsibility of the Army Air Forces. The time consumed in working out procedural details caused difficulties in the initiation of construction, but many of the techniques evolved during this expansion remained in use throughout World Wer II.

The general letter of 14 March 1941 which directed the expansion of Air Corps tactical strength to 84 combat groups also noted that the expansion would involve additional development of the existing Air Corps stations and the construction of new bases. On 23 March the Chief of Staff directed that thenceforth the Chief of the Air Corps would initiate for final action all papers on purely Air Corps matters which formerly had been drawn up by the Uar Department General Staff. So empowered Major General George H. Brett, Acting Chief of the Air Corps, forwarded a memo containing recommended site selection procedure to the Chief of Staff on

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7 May. He proroced that stations should be selected for 21 combat groups, eight in the First Air Force area, five in the Second Air Force area, four in the Third Air Force area, and four in the Fourth Air Force area. Four boards (one for each air force) were to be appointed, consisting of a representative of the OCAC, an Air Corps and Medical Corps representative from the air force concerned, a representative of the Chief of Engineers (preferably the local District Engineer or his representative), and a representative of the Corps Area in which the station was to be located. The boards were to be instructed by the Chief of the Air Corps, and they were to report directly to him. This procedure was approved by the Chief of Staff on 9 May 1941.

The Adjutant General issued the directive outlined by General Brett on 13 May and required the commanders concerned to name their represen-184 Later in the month the Quartermaster tatives on the four site boards. General proposed that his office should be represented on the site boards in order to make the necessary lease negotiations, but the Office of the Chief of Engineers urged that this was contrary to the agreement that his office should have charge of leasing arrangements on projects to be 185 accomplished by the Corps of Engineers. In view of the fact that the Army Air Forces reorganization was to remove all Air Corps stations from the jurisdiction of the Corps Areas, the CCAC requested on 5 July that representatives of the Corps Area commanders not be included on the site 186 The Adjutant General was finally able to aproint the boards boards. 187 on 11 July. The senior air officer of each board reported to the Chief of the Air Corps for a series of conferences and for instructions.

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By 30 July these officers had been given the necessary information and had been directed to locate sites for 25 stations, 21 for new groups (10 heavy bombardment, 5 medium bombardment, and 6 light bombardment groups) and 4 for units (3 pursuit and 1 light bombardment groups) which were over-188 crowded at their existing bases. In locating these new stations the boord presidents were instructed to give first consideration to states which had no Air Corps installations.

The excessive amount of time which had been consumed in getting the site boords into the field seriously impeded the work of the Buildings and Grounds Division, OCAC, in the preparation of cost estimates for the construction. On 8 July Colonel F. M. Kennedy, Chief of the Buildings and Grounds Division, protested that previous cost estimates had been no more than a "shot in the dark." He requested sufficient time to receive the site board reports, get them approved, and then to secure actual estimates of the costs made at the sites by the Corps of Engineers. The Office of the Chief of Engineers proposed substantially the same procedure on 26 July, but Colonel Kennedy replied that once more he had been called upon to submit estimates in advance of the revorts from the site boords. His estimates were thus "the same guess work as have been all previous estimates." On 8 August Colonel Kennedy estimated that the total costs of the second aviation objective construction would be approxi-Five days later the Buildings and Grounds Division mately 0412,740,871. sent an estimated break-down of bace strengths projected under the second aviation objective to each of the station commanders and directed them to prepare costs estimates for additional construction required to support 193 such garrisons.

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Actually uncertainties as to the number and types of new groups which were to be located within the continental limits of the United States permitted no careful cost estimation. Early in October General Marshall asked as a matter of policy whether the 84-group-program stations should be located for defense or for training, and he indicated that he wished due consideration given to the needs of the air suprort units in planning the new stations; General Arnold replied that it was most important to emphasize training. On 3 October Brigadier General Carl Spaatz directed the AC/AS, A-4, to base calculation of needs for new continental stations on the deployment schedule of AWFD-2, a plan concerned with building up the overseas air garrisons. On 18 November he directed the AC/AS, A-3, the AC/AS, A-4, and the AWPD to make a definite decision as to the number of new stations to be located in the United States. On 22 November AMFD presented a study which recommended that bases for 55 combst groups (14 heavy bombardment, 11 medium bombardment, 12 light bembardment, 14 interceptor, 2 observation and whote, and 2 composite grours) should be provided in the continental United States, and General Spantz approved the study. Two days later at a Congressional hearing the War Department was committed to the construction of 14 of the projected 198 air baces in the United States.

Congressional hearings had begun on the appropriating legislation on 17 November. The War Department originally asked for \$105,298,177 with which it planned to construct 11 complete airfields and an additional \$52,300,310 for the initiation of construction at 14 other skeleton stations. These skeletonized stations were to have runways and utilities, and additional funds were to be requested for their completion during the

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new fiscal year. The total amount of money asked for these and for other miscellaneous Air Corrs construction projects was \$379,804,238. This appropriation bill was still before Congress on 7 December, and the War Department hurriedly secured an anendment adding \$390,000,000 to complete the 54-group projects still outstanding, to provide urgent construction projects reported by field cormanders, and to construct all of the facilities needed by the 84-group expansion. In the legislation approved on 17 December a total of \$779,371,725 was appropriated for Air Corps construction, and the CAA was given \$59,115,300 with which to develop an additional 105 airports required to complete the needs of the 54-group program.

For the first time in its history the Army air arm was to have the active direction of its own construction. At the time of the creation of the overall Army Air Forces headquarters on 20 June 1941, the Chief of the AAF, assisted by his Air Staff, had been given direct War Depart-202 ment repronsibility for aviation matters. Designation of the sites of the new stations so devolved upon the Chief of the AAF. On 25 November General Arnold directed the Buildings and Grounds Division, OCAC, to evaluate the site recommendations which had been submitted by the site boards and to submit its corclusions to AC/AS, A-4, for review. General Arnold 203 was to make the final designations. The Buildings and Grounds Division prepared an elaborate scoring analysis on the suitability of the sites, assigning 20 points for flying weather, 20 points for terrain, 20 points for suitable location in regard to ranges, civil airways, and cooperation with the ground forces, 20 points for costs, 20 points for availability 204 of city housing, and 30 voints for tactical and strategic requirements.

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The recommendations of the Buildings and Grounds Division were submitted on 27 November.*

Although the funds had not actually been voted, the Assistant Chief of Air Staff, A-4, recommended on 8 December 1941 that immediate action to taken looking toward the construction of bares at Syracuse, Richmond, Rapid City, Walla Malla, Greenville, Columbus, and Nashville. He also recormended that construction should be initiated at Sioux City, Topeka, Fort Worth, El Paso, Pueblo, Santa Maria-Lompoc, and Reno, although not onough funds were included in the appropriation measure to complete them. General Arnold, however, arroved only the first seven bases. 202 December the Chief of Engineers was informed that these seven bases would be all-purpose type installations, designed to accomidate the maximum char-206 acteristics of any type of combat group. On 1 January 19/2 the AAF formally directed the Chief of Engineers to begin surveys, site acquisition, and construction at the seven baces. Those at Syracuse, Walla Walla, and Greenville, because of their closeness to the sea frontiers, were to 207 be disperced. On 31 December the Chief of Engineers was instructed that the other seven stations would be built. A formal construction directive was forwarded on 2 February for all of them except Santa Maria-209 Lompoc which was held up for changes in its layout plan.

*Colonel Kennedy submitted the following recommended groupings of possible sites: (1) Syracuse, N. Y., or Eurlington, Vt., (2) Topeka, Kans., (3) Santa Maria-Lompoc, Calif., (4) Beaument-Silsbee, Tex., (5) Sioux City, Iowa, or Lincoln, Neb., or Des Moines, Iowa, (6) Reno, Nev., (7) Fort Worth, Tex., (8) Nashville, Tenn., (9) Greenville, S. C., or Florence, S. C., (10) Yakima, Wash., or Flamath Falls, Cre., or Walla Malia, Mash., (11) Casper, Wyo., (12) Rarid City, S. D., (13) Aurora, IIJ., or Columbus, Chio, (14) Richmond, Va., (15) Minnearolis, Minn., (16) El Faso, Tex., (17) Fueblo, Colo., (18) Great Falls, Mont., (19) Amarillo, Tex. (Memo, Col. F. M. Yennedy, Chief, EEG Div, CCAC, to Col. E. P. Sorenson, AC/AS, A-4, subj: Site Board Froceedings, 27 Nov. 1941, in AAG 686 F.).



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The sites for the first seven stations were either leaged or purchased. and, despite unfavorable weather during the winter and spring of 1942, their construction was rushed to completion. The base at Syracuce received troops in August 1942. Criginally assigned to the Air Force Concentration Command, it passed to the Air Service Command on 1 December 1942 for OTU Contracts were let at Marid City in March 1942, and it was training. ready to receive a heavy borbardment group late in September 19/2. This field became one of the heavy hombardment OPU stations of the Second Air 212Force. At Walla Walla the Army base was located at the site of a CAA improved airfield, and it was able to receive troops in June 1942. Like Rapid City, it became a Second Air Force OTU station. Despite the fact that housing was not complete at Greenville, a bombardment group was moved to the field in June. This base became a medium borbordment RTU under the Third Air Force. ²¹⁴ With the completion of the buildings at Richmond in June, the base was as igned to the First Air Force for use as a fighter OTU and RTU station. Work was started at Smyrna, Tenn., in January 19/2, but inclement weather and delays in securing critical materials delayed the completion of the field until July 1942. On its completion the Smyrna base was assigned to the Eastern Flying Training Command for use as a 216 four-engine pilot transition school. The Lockbourne Army Air Base. located 10 miles south of Columbus, Chio, was finished in Sertember 1942. Gliler training was conducted there on limited facilities during that surror, but on 1 October 1942 the field was transferred to the Air Service Cormand.

Sites for all except one of the second group of stations were

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218 rurchased, and construction was expedited under the war emergency procedures. Construction of housing began at Sioux City in March, and in September 1942 the base received its Second Air Force heavy bonbardment OTU. Building began at Fueblo during March and by October 1942 the base was ready for its Second Air Force heavy bombardment group. The air base at Topeka was operational as a Second Air Force heavy benbard-221 ment OTU in September 1942. At El Paso a new site was selected east of Biggs Field and construction was initiated on a heavy borbardment base. The new El Faso Army Air Pase became a Second Air Force CTU, receiving troops in August 1942. Biggs Field was transferred to the Second Air Force on 21 March 1942 and continued to serve as an air surport field At Fort Worth until October 1943 when the two fields were combined. additional land was purchased near the airfield being built for a government owned aircraft plant, housing was erected, and by 14 Cctober 1942 the new installation--called Tarrant Field--began transition training for four 223 engine rilots under the Gulf Coast Training Center. The Santa Maria Army Airfield was accepted on 1 May 1942. Although it was designed as an air sup ort base, the field was assigned to the Air Service Command in December 1942 for training service groups. The Reno Arry Air Ease, also designed as an air support field, sheltered the headquarters of the II Ground Air Suprort Command during June 1942, and it was also used by the Second Air Force and the Air Service Command for training service 225 troops.

The completion of these 14 air bases brought to an end the construction projected under the 84-combat group expansion. The whole program had been meticulously planned to meet the needs of a peace-time tactical

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excansion, but the beginning of the war screwhot changed these needs. These bases, as will be seen more fully below, represented a most important nucleus of the war-time excansion which was to get underway in 1942.

3. Air Suprort Fields

The t ird phase of the peace-time excansion of air base facilities for hemispheric defense-the relection and construction of fields for National Guard and regular Army observation and reconnaissance units--revealed less of the comprehensive planning which had characterized the expansion of air facilities made directly under Air Corps control. Ground forces excansion during 1940 and 1941 necessitated a similar expansion of observation and reconnaissance squadrons to support the new troop units. By War Department policy armies, corps and divisions required air surport units, which for convonience of training were to be located near units 226which they were to support. These units were organically a part of the Air Corps, but because of their method of control, they were under a somewhat nebulous responsibility to the Chief of the Air Corps. The bases upon which they were located were, throughout this period, assigned to and administered by the ground forces.

The OCAC nevertheless assumed the initiative in securing bases for the regular Army squadrons. Excause of the transfer of Moffett to the West Coast Training Center it was thus necessary to find a new field for the observation squadron based there. This squadron, less one flight which was transferred to Brooks Field, was moved to Hamilton in the fall of 1940 in order that it be near the headquarters of IX Corps Arca.²²⁷ Since this was a temporary station and since it was decided that the squadron should be closer to the concentration of ground troops at Fort

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Crd, Calif., a new station was needed. The board of officers making reconrendations for the location of the 54-combat-group stations on the Facific const collected a site at Salinas, Calif. Housing for the squadron was accordingly constructed on an airdrome lease at Salinas, and in the summer of 1941 the squadron, together with the flight which had been moved to Frooks, was transferred to the new airfield. 229

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Under the Army's first aviation objective the CCAC was authorized to form two new reconnaissance squadrons for assignment to the Second and 230 Fourth Armies. The squadron which was to work with the Fourth Army was located at Salinas with little difficulty, but a new base had to be secured for the Second Army squadron. The board of officers making recommendations for the location of the 54-group stations in the South selected the municipal airport at Atlanta, Ga., for the unit. This site was approved by both the War Department and the Chief of Air Corps, though the OCAC later regretted the commitment. Construction had begun, and late in 1940 the reconnaissance squadron cadre was sent to Atlanta. Movement of the headquarters of the Second Army to Memphis, Tenn., led that unit to request the transfer of its reconnaissance squadron to a location proximate to Memphis. The Air Corps arroved this request, but the War Department was of the opinion that it would be inadvisable to abandon the Atlanta cantonment. Some of the older observation squadrons were relocated during 1940 and 1941 in order to effect closer training: squadrons at Scott and Mitchel were moved to Fost and Lawson Fields; an additional station was leased at DeRidder, La., and in February 1942 an observation squadron from Erooks was moved there to support the armored division 234 training at Camp Folk, La.

Location and construction of stations for the Nationa' Guard obser-

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vation squadrons ordered into the federal service in 1940 and 1941 was handled almost exclusively by the Mar Department General Staff and the Funds for housing the first 21 squadrons to be ordered to active duty were appropriated on 9 September 1940, and tentative stations were selected near the rosts of the National Guard divisions with which they were to train. By March 1941 all of these first 21 squadrons had been mustered into the federal service.²³⁷ In December 1940, after plans had been made to induct nine more newly formed National Guard squadrons (one of which was to be located in Alaska), the Assistant Chief of Staff, G-3, directed the Chief of Air Corps to get up a board of officers to select sites near Rolls, Mo., Camp Forrest, Tenn., San Antonio. 233 Tex., Fine Camp, N. Y., Hattiesburg, Mirs., and Abilenc, Tex. Such a heard was formed by War Department orders, and by April 1941 the Chief of Staff had arproved the sites for the remanent staticas of all 30 of the observation squadrens. Py the fall of 1941 these observation squadrons were either located or were in the process of being moved to their permanent airfjelds."

Although the airfields and housing requirements for these observation squadrons were relatively simple as befitted their small personnel and light planes, numerous difficulties were encountered in operating from the

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^{*}Under this mobilization expansion, observation stations were brought into operation at Wheeler-Sack Field, Fine Camp, N. Y.; Ctis Field, Camp Edwards, Yass.; Fort McClellan, Ala.; New Cumberland, Pa.; Detrick Field, Frederick, Nd.; Lexington County Airport, Columbia, S. C.; Eirmingham, Ala.; Esler Field, Camp Peauregard, La.; Chicago, Ill.; Adams Field, Little Rock, Ark.; Brownwood, Tex.; Cherwood Field, Faso Robles, Calif.; New Municipal Airrort, San Antonio, Tex.; Jacksonville, Fla.; Fort Dix, N. J.; Fort Devens, Mass.; Abilene, Tex.; Vichy, Mo.; William Northern Field, Tullahoma, Tenn.; Hattiesburg, Miss.; Alexandria, La.; and Fellogg Field, Battle Creek, Mich. (AAF, Station Lict, 20 Cert. 1941).

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stations provided them. At Esler Field, for example, the observation equadron in November 1940 w₀s quartered in tents and in the dilaridated buildings of a former CCC camp. The sole runway was unsafe in wet weather and during adverse cross-wind conditions. Reilly Field, Fort FcClellan, Ala., was found to be so hazardous in May 1941 that the Chief of the Air Corps recordend that it be abandoned. The squadren camp area at Columbia, S. C., located on the edge of a runway, was both cranted and exposed to the general public. In June 1941, after an inspection trip had been made by one of his assistants, Brigadier General F. A. Dargue, Chief of the Inspection Division, CCAC, noted that the observation squadrens were confured by their multiple charnels of administration, depended upon often uninterested ground force com anders for their training missions, and had poor facilities for operations and maintensnee. In general, the whole picture was "extremely poor."²⁴²

In order to increase on this situation, General Marshall on 21 June 1941 wrote identical letters to each of the Army commanders, pointing out that the training of the observation squadrons was notably deficient.²⁴³ On 25 July the War Derartment moved a ster further and directed the Chief of the Army Air Forces to assume active control of the observation squadrons. He was to form five air support commands to which all of the squadrons were to be assigned for training.²⁴⁴ General Arnold ordered the Air Force Combat Command to form the five commands.²⁴⁵ On 30 August that organization ordered the activation of the five commands, directed the formation of group headquarters to centrol the separate observation souadrons, assigned both the new observation groups and the existing light bombards ent groups to the five commands, and formed an Air Support Section

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in its headquarters to give overall direction. The air support command headquarters were established at Mitchel Field, Will Rogers Field, Savannah Army Air Fase, Familton Field, and Powman Field carly in September 1941.

Despite this action, the air support bases remained confused. The AAF arsumed the basic War Department responsibility for the development of air support fields,²⁴⁷ and, as has been seen, made provision for air support bases in the selection of the E4-cerebat-group fields. Many of the existing observation squadron airdromes, however, remained under the jurisdiction of the ground force commanders. As late as March 1942 the Second Air Force had not determined whether it had any authority over the fields on which its observation units were stationed.²⁴⁸ Solution of this problem was to consume much effort during 1942 and 1943.

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The 1939 augmentation had been primarily concerned with the development of the minimum backs needed for hemispheric defense, and the 54- and . E4-group programs, while they did not forget defense requirements, had been longely concerned with the procurement of airfields suitable for the mobilization and training of an excanding Air Corps. During the course of 54- and E4-group programs the Air Corps had sought, principally through the CAA, to secure the develorment of an additional number of civil fields which would be needed for war emergency defense use. These three excansions had been closely directed from Vashington. In December 1941, however, the AAF was faced with two problems: first, and most immediate, it had to provide the facilities needed for the dispersal of its air units to prevent a second Fearl Farbor catastrophe on the sea frontiers of the United States; second, it had to provide the facilities for the mobilization training of an air force of enormously increased size.

The exigencies of wer thus forced an immediate trocurement of a great number of air bases, caused changes in constructional requirements and techniques, and shifted the scarce factor in construction from funds to man-hours and materials. The immensity of the building programs led to some decentralization of direction and responsibilities. To a very great extent the using agencies in the field, not the AAF headquarters in Washington, had to determine their facility needs to meet the overall directives given to them by the AAF. By the fall of 1942, however, it had become argament that the war would not be fought in the United

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States, and defensive developments could be curtailed. By about June 1943 sufficient base facilities had been constructed in the continental United States for mobilization and training. Once more the headquarters of the AAF could assume a more active role in the direction of construction.

1. Frocurement and Development of Defense Facilities

The impact of the news from Yearl Harbor and the immediate prospect of enemy air attacks on the continental sea frontiers forced an equally immediate deployment of AAF planes to outlying bases and a dispersal of aircraft on the main bases. A part of the facilities needed for deployment had been provided by CAA and WPA constructed airports. On 14 December 1941 President Roosevelt directed the Secretary of War "to take possession and assume control over any Civil aviation system or systems or any part thereof to the extent necessary for the successful prosecution of the War." The Eastern Theater of Operations and the Western Defense Command were authorized to call upon War Department construction agencies for ungent construction, to incur financial obligations, and to use either fixed-fee, negotiated, or lump-sum contracts to get urgent construction completed. They were cautioned, however, to assure that no abuve was made of the sweeping authority to by-pace the usual War Department channels.

<u>Passive Defence Projects</u>. During the period of extreme caution following Fearl Marbor extensive efforts were made to protect the coastal airfields against surprise attack by means of passive defense measures, including revetments, disperced layouts, and camouflage. On 9 December 1941 General Arnold directed the immediate dispersal of all aircraft west of the Rocky Mountains and the construction of sand bag revetments . for further protection. On the Atlantic coast all large concentrations

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of planes were to be similarly protected at once.³ Cn 13 December the AAF directed that all new baces built within 350 miles of the Atlantic and Facific coasts and within 300 miles of the Gulf were to be given a disrersed layout. ⁴ By 26 December, meting under the emergency powers of the Western Defense Command, the Corps of Engineers had started 81 emergency projects on the Facific const, including hardstandings, dispersal taxiways, revetments, and sand bag protective devices. At Hamilton Field alone \$413,850 were committed for revetments and taxiways. In the east, fighter revolments were constructed at 23 bases, and heavy bomber dispersal area were built at seven bases. By May 1942 some \$35,645,023 had been srent for emergency work.⁵ After the flurry of excitement had worn off, it became evident that revetments on such a large scale would not be needed. On 20 December 1942 the Second Air Force thus directed the completion of bomber revetments in progress, but sought to end the effort there and to build hardstandings and taxivays to dispersed positions instead. The emergency construction powers of the continental theaters of operations were curtailed in February 1942, but on 23 March the Eastern and Western Defense Commands were allowed to authorize emergency construction projects only if they cost no more than "20,000." On 4 March 1942, however, the War Department ordered that no more revetnents would be constructed without specific authorization for each such project.

Construction of dispersed and canouflaged facilities was continued somewhat longer. Shortly after Fearl Parbor the Corps of Engineers was instructed to provide dispersed layouts at 15 air baces near the sea frontiers of the United States,⁹ and other individual projects for improvised dispersions were later authorized. On 28 February, for example, a project was approved at Dow Field costing 5416,557 and including tone

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down of prominent features, planting of trees and shrubs, tone down of taxiways, painting of roofs, and construction of disperced facilities.¹⁰ For training purvoces a complete dommy airdrome was built near the Richmond Army Air Ease.¹¹ By December 1942, however, combat experience had shown that airfields were not remunerative targets for air attack, and Erigadier General L. P. Whitton, Director of AAF Ease Services, recommended that more conventional airfields should be built in the United States.¹² In March 1943 the Mar Department, estimating that such projects had cost some 145,000,000, directed that future passive defense projects should be limited to vital defense zones and should be as simple as possible.¹³ In October General Arneld indicated that such passive defense projects were no longer needed in the continental United States.¹⁴

Deployment to Defensive Airfields

Since 1939 the Air Corps had been working toward the development of a sufficient number of strategically located civil airfields to insure proper dispersal of its units both for passive protection and for the defense of potential targets for air attack in the United States. During December 1941 many of these civil fields, most of which had been improved with WFA and CAA funds, were added to the AAF roster of stations. Most of the existing fields required additional development to fit them for military use, and additional bases had to be provided to buttress the defensive situation.

During the month which followed Fearl Harbor the First Air Force, as the principal air component of the Eastern Theater of Operations and its successor Eastern Defense Command, quickly deployed its pursuit squadrons for the defence of potential targets in the Northeastern and Central

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Atlantic states. One purcuit proop was disratched to the Norfolk, Va., municipal airrort. Other purcuit equadrons and flights were cent to Green Airport, Hillsgrove, R. I., to the municipal airfield at Bendix, N. J., to the municipal airrort at Fhiladelrhia, Fa., to the depublic Aviation Corporation Field at Farmingdale, N. Y., to the Glen L. Martin Field at Middle River (Baltimore), Md., to Trumbull Field, Groten, Conn., to the municipal airrort at Eridgeport, Conn., and to Commonwealth Airrort, East Easten, Mass.¹⁵ Leases were quickly negotiated and in January 1942 emergency construction projects at all of those fields (except Martin Field), together with the municipal airfields at Newark, N. J., Dover, Del., Atlantic City, N. J., and Eeltsville, Md., and Logan Field, Faltimore, Md. (substituted for Martin Field), were ordered by the Eastern Theater of Operations. These projects covered the construction of emergency type housing and dispersal facilities.¹⁶

During the remainder of 1942 there was a gredual recovery from the pressures which had led to agitation for "a fighter bace every five miles," and some readjustment of the pursuit fields was undertaken.¹⁷ In April LaGuardia Field at New York City was cleared for emergency pursuit use,¹⁸ and by June additional leased facilities had been obtained at the New Haven, Conn., municipal airfield and at tentschler Field, Hartford, Conn.¹⁹ During July the detachment from the East Boston airrort was moved to a newly negotiated leasehold on the CAA-constructed field at Bedford, Nass.²⁰ In the same month the AAF leased and took over responsibility for the construction on the CAA project at Hillville, E. J.²¹ The completion of this airfield enabled the First Air Force to move its units from the Fhiladelphia municipal airfield which was unsuited for tactical use.²²

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Probably because of the failure of the CAA to find a local sponsor to runchase the site needed for development at Bendix, N. J.,²³ the First Air Force secured the lease and development of the Suffolk County Airport, at Westhammton leach, N. Y. Work began there in September 1942 and the initial project was completed by May 1943.²⁴ General Arnold gave final approval for the construction of a defense airfield for Washington at Camp Springs, Md., in August 1942, and the base was ready for use in April 19/3.²⁵ By December 1942 the First Air Force hud also secured facilities needed for fighter units at Brainard Field, Fartford, Conr., at Fortsmouth, N. H., and at Salisbury, 13.²⁶

The First Air Force also had to find stations for its I Bember Command which was given the mission of antisubmarine patrol along the Atlantic and Gulf coasts. Nost of the stations needed were obtained by the diversion of a part of the housing and facilities at older bacco, but some new stations whre required. The municipal airport at Dover, Del., was accordingly leaves in December 19/1 and given temporary improvements by the Fastern Theater of Operations. During the fall of 1942 and the spring of 1943 a bc-ber station was built there. A tent camp was constructed for immediate use at Bluethenthal Field, Wilmington, N. C., and in the fall of 1942 work was begun on a bembardment station. • At the height of its patrol operations the I Pomber Command and its successor, the AAF Antisubmarine Command (activated on 15 October 1942), operated from facilities which had either been diverted or built for its use at Dow, Grenier, Mestover, Mitchel, Ft. Dix, Dover, Langley, Bluethenthal, the municipal airfield at Charleston, S. C., Chatham Field at Savannah, Ga., Jacksonville, the 36th Street Airrort, Miami, Fla., the Boca Chica Naval Air Station at

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Key West, Fla., Drew, the municipal airport at Gulfport, Miss., and the municipal airfield at Galveston, Tex. 29

The Third Air Force met the more limited requirements of its defensive mission without any additional installations. In March 19/2, however, the AAF Directorate of Air Pefence called attention to the ne d for three gursuit airdromes within 25 miles of the Sault Ste. Marie Canal, the highly critical connection between the iron ore fields on Lake Superior and the Great Lakes waterways. A Third Air Force site board recommended the location of these fields at Raco, Kinross, and Sault Ste. Marie, all in northern Michigan. The area was primarily a gun-defended zone under the Central Defense Command, but, in view of the fact that the working season in northern lichigan was very short and no suitable civil fields existed for basing pursuit units in an emergency augmentation of the zone, the AC/AS, Flans, AAF, recommended that there was military necessity for the construction of runways, lighting, and gasoline storage at the three airfields. 30 The Corrs of Engineers was instructed to provide the fields. The project was later reduced by the deletion of the airfield at Sault Ste. Marie, but skeletonized installations were built at Haco and Kinross 32 and placed on a standby status.

On the Facific coast the Second and Fourth Air Forces, assigned on 11 December 1941 to the Western Theater of Operations, experienced a similar expansion of facilities to meet defensive requirements. In the Facific Northwest the Second Air Force lacked a sufficient number of airdromes to Provide a separate field for each of its tactical squadrons-the desideratum for defensive deployment. One pursuit group, however, was roved to Seattle, Unsh., immediately after Fearl Parber, to guard against

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cossible attack on the Bremerton Navy Yard and the Boeing aircraft plant. Plans for the acquisition and development of other fields were somewhat complicated by the impending transfer of the defense mission in the Facific Northwest to the Fourth Air Force, but on 1 January 1942 the II Interceptor Command requested the procurement and preparation of single pursuit squadron facilities at Bellingham, Port Angeles, Qlympia, and Kitsap County (Bremerton), Wash., and at Salem and Hillsboro, Cre. For alternate use the II Intercertor Command recormended the airfields at Yount Vernan, Arlington, SardFoint, Seattle (Fuller-Harkins airport) and Shelton, Wash., and at Troutdale, Scappoose, and McMinnville, Ore. Other fields -- including that at Quilleyute, Wash .-- were recommended for development as emergency airdromes. The Second Air Force almost immediately replied that the airports at Olympia, Kitsap County, and Salem were being improved to provide a 5,000-foot runway, request had been made on the CAA to place Hillsboro in its first priority for development, and revetments were either being built or would be ordered constructed at all of the fields. In regard to the alternate fields, request had been made to the Mestern Defense Command to improve Mount Vernon and Arlington, the Sand Point Naval Air Station was usable, Muller-Harkins was thought to be a poor station for Army use, the CAA had been requested to improve either McMinnville or Scappoose, Troutdale was being improved, and recommendation had been made to the Fourth Air Force in behalf of improvements at Shelton. 35 The Second Air Force had obtained Navy permission to add installations at the Navy fields being developed at Quillayute, Mount Vernon, Arlington, Shelton, and Bremerton.

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After a period of organizational confusion the Fourth Air Force assumed control of the main Second Air Force bases in the northwest (Faine, McChord, and Fortland) on 26 January 1942. By the same token it assumed responsibility for the procurement of additional fields needed in the Major General J. E. Fickel of the Fourth Air Force requested 37 region. Naval permission to develop suitable installations for one pursuit squadron at Quillayute, Shelton, Mount Vernon, Arlington, and at the new site at Oak Harbor, Wash., and received reaffirmation of the permission originally 38 Arm; construction projects for those fields, for the Bremerton Naval Air Station (Kitsap County Airport), and for the CAA constructed fields at Olympia, Bellingham, Port Angeles, Salem, and Willipa (South Bend), Wash., were arproved by the AAF on 7 April 1942. The Fourth Air Force also assumed jurisdiction over the CAA fields at Eugene and McMinnville, Ore., and over the flight strip at Aurora, Ore., 40 Most of these fields were used by single pursuit squadrons during 1942, but by May 1943 only Salem, Bellingham, Olympia, and Port Angeles were occupied by troops. The Fourth Air Force was responsible for the development of defense

installations on the remainder of the Pacific coast from the beginning of the period of preparation for war. During 1941 General Fickel had been active in cooperation with municipal, county, and state officials -- perticularly in California -- in an effort to build up the civil fields to be Shortly after 7 December 1941 it was thus possible needed for defense. to move squadrons and detachments of Fourth Air Force tactical units to the North Island Naval Air Station at San Diego, to the municipal fields at San Bernardino, Long Beach, Bakersfield, Oakland, and Sacramento, and

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to Mines Field at Los Angeles.⁴³ In order to expedite business with the command rost of the Western Defense Command at the Fresidio of San Francisco, an advance echelon of the Fourth Air Force headquarters was rushed to Hamilton Field and by 15 December the whole headquarters, together with the staff of the IV Bomber Command, had opened at Hamilton Field. On 5 January 1942 the staffs were moved to a leased building in San Francisco. The IV Interceptor Command headquarters, more tied down by its complicated communications net-work, continued temporarily at Riverside but eventually

moved to Oakland, Calif. 44

The initial deployment of tactical units by no means met the defense needs of the Fourth Air Force. On 10 February General Fickel therefore presented the Vestern Defense Command with an airfield program designed to provide an operating airfield and an alternate airfield for each of the 22 tactical squadrons assigned to the Fourth Air Force. Two additional fields were provided because of the prevalence of fogs in the San Francisco region. Cnlp 13 of these fields were available for use, construction under the emergency authorization of the Western Defense Command was underway at 12, and the remaining 19 fields required authorization.⁴⁵ All emergency construction, however, was suspended by War Department order on 24 February, so that the whole program had to be forwarded to Washington on 29 March.⁴⁶ On 7 April General Arnold, with come changes and deletions, approved most of the items of construction desired.

^{*}Eakersfield, Bishop, Blvthe, Kearney Mesa (a field shared with the Yavy), Delano, Fairfield-Suisu, the Grand Central Air Terminal at Glendale, Oakland, the Metropolitan airport at Van Muys, the Orange County airport at Santa Ana, Oroville, Otay Mesa (joint occupation with the Navy), Falmdale,. Forterville, Redding, Russell City (Hayward), the Sacramento municipal airport, Mills Field at San Francisco, end Visalia, Calif., and at the airfields previously noted in Oregon and Washington. The AAF refused to approve recommended projects at the Long Beach, Los Angeles, and Yakima, Wash., municipal airfields. (Rdg., Arnold to CG WDC, 7 Apr. 1942, in AAG 686 I.)

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Changes and additions to this program of construction were not requested by the Fourth Air Force until September 1942. Then it requested authority to develop facilities for a single fighter squadron at the Oxnard, Calif., flight strip; at the Lomita, Calif., flight strip (substituted for the Long Beach municipal field); at Ontario, Calif.; at heam Field, San Diego (joint occupation with the Navy); and at the Half Moon Eay, Calif .. flight strip. To replace the Ios Angeles municipal airport, it wished to develop a fighter field on San Nicholas Island, one of the Santa Barbara group lying off the coast from Los Angeles. Authorization was requested to develop a squadron strength bomber station at Ellensburg, Wash., vice Yakima. The Fourth Air Force noted that it planned to submit projects to accormodate a fighter squadron at Concord, Calif. (in place of the Alameda Yaval Air Station); for housing personnel of medium horber squadrons at the Winters-Davis, Calif., flight strip (to replace Fairfield-Suisun), and at the CAA constructed field at Madera, Calif.; and for a heavy bomber squadron at the CAA built field at Needles, Calif. (vice Blythe which had been assigned to the Troop Carrier Cornand).47

This program seems to have been arproved substantially as presented, but the projects planned for later submission did not fare so well. Housing was subsequently built at Concerd, but Winters-Davis and Needles received no such improvement and Madera w_n s not assigned to the Fourth Air Force. Because of opposition from the Yavy, squadron strength housing approved for Ream Field at San Diego and for the fields at Kearney Mesa and Ctay Mesa was nover constructed. In addition to these stations the Fourth Air Force was also assigned the fields built by the CAA at Inyokern, Montague, Yapa, and Santa Rosa, but housing was built only at the latter

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field. Most of these projects were small and the theater of operations type housing at them seldom exceeded accommodation for 500 men. They were occupied during the period of extensive defensive preparations effected on the Pacific coast, and most of them passed to a standby status when the air defense of the region was relaxed. On 1 May 1943 only Glendale, Russell City, Oakland, Ontario, Palmdale, Sacramento, Mill's Field, the Orange County aircort, Santa Rosa, and the Metropolitan airport at Van Nuys had troops assigned to them.

Most of these fields which had been taken over for defensive deployment had been developed by the CAA. Shortly after the beginning of United States participation in World War II, the General Accounting Office expressed the opinion that exclusive military lease on CAA constructed airports would still be permissible for the duration of the war. This made it imrossible for the Air Forces to continue to look to the CAA for construction of the numerous fields which local commanders deemed necessary for national defense. Such commanders, still thinking in terms of the developen of a sufficient number of airdromes to permit a large concentration sectical units, asked for improvements to about 600 airfields, of which would be needed during the fiscal year 1943. The First Air Force. for example, sent in a list of 155 airports which it wished developed. The matter was taken up with General Arnold on the evening of 27 April 1942, and he, reasoning that the war was going to be fought in Europe and the Pacific rather than in the United States, declared himself flatly opposed to the development of more than one-fourth of such a number of airports. On 2 July 1942 the CAA received an appropriation of \$199,740,000, and the ceiling on the number of airdromes to be built or improved was raised to 668. ⁵³ This was the last substantial sum to be appropriated to the CAA

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for the development of civil airfields during the war period. By the end of 1943 nearly all of the CAA developmental projects were complete.⁵⁴

For the development of the flight strips which became a part of the Pacific coast air defenses, the OCAC and the AAF had worked in close coordination with the United States Commissioner of Fublic Roads. The Commissioner had first been empowered to contact the state highway departments in planning such strips on 5 September 1940, and in January 1941 the OCAC had laid down a preliminary definition of such strips. They were to be of primary use for dispersion, were to be adjacent to good highways, and should be located within 25 to 100 miles (preferably not over 50 miles) 56 of established air bases. The OCAC desired that the program should be decentralized as much as possible, and the GHQ Air Force had accordingly directed the Air Force commanders to work with state highway departments in selecting sites. 57 Congress on 19 November 1941 appropriated \$10,000,000 to the Commissioner of Public Roads for such construction as be might arrange and added \$5,000,000 on 17 December 1941. Durin some 21 flight strips, with dimensions of 500 by 5000-8000 feet, structed at an average cost of \$394,000 each. By October 1942 the AAF, because of urgent requests from the War Production Book projects which could be stopped without serious injury to the felt that the program should be completed as soon as possible and not be continued further. Although most of these flight strips located along the continental seaboard, a few were located inland, generally to serve bombing ranges or for other specialized training.

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2. Development of Facilities for the Expanding AAF

Concurrently with the expansion of facilities for the defense of the continental sea frontiers, the AAF was concerned with the much larger problem of finding and developing bases to accommodate the programmed expansion of its tactical air strength from 84, to 115, to 224, and finally to 273 combat grours. This expansion of base facilities had to keep pace with, and in most cases to precede, the projected combat expansions whose accelerated activation schedules demanded unprecedented construction activities.

The immensity of the construction problem may be seen by viewing the projected combat expansions. On 23 December 1941 General Spaatz announced that the immediate objective for the AAF would be the completion of the 61 84-group program during 1942. On 2 January 1942, however, General Arnold in a memorandum for President Roosevelt indicated that the initial step toward development of "the mightiest air force the world has ever seen" would necessitate immediately at least 56 additional pilot schools, with an annual productivity of 70,000 pilots, ground schools to turn out 300,000 technicians a year, and at least 106 new air bases.⁶² The next day the AAF proposed to add 45 combat groups to its current strength (making a total of some 115 combat groups), to expand its pilot cutput first to 50,000 and then to 70,000 per year, and to expand its rate of technician training during 1942 to 300,000 per year. . This proposal was approved for accomplishment during 1942 by the War Department on 19 February 1942.

In order to facilitate future expansion, work was begun immediately ` to project the expansion for 1943. On 29 January AWPD proposed that the

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AAF should attempt to achieve a total of 224 combat groups during 1943. During February this proposed strength was approved by the AAF as a basis for study and planning.⁶⁶ By June the 224 group program was being coordinated with the War Department, and the commitment was approved in effect in the War Department troop basis issued on 28 August 1942. Meanwhile. the AAF hed drawn up more ambitious plans which contemplated expansion to a strength of 273 groups during 1943. On 2 September 1942 General Arnold therefore directed that plans would be made to expand the technical school output to 600,000 annually, reaching this rate by July 1943, and to expand the flying training rate to turn out 102,000 pilots annually, reaching this capacity by 31 December 1943. By the middle of December 1942 it was evident to General Arnold that the 273 group program approached the maximum size that the man-power and productive resources of the United States could support. He directed the Air Staff to make plans to reduce flying training objectives and to taper off all expansion at the "saturation point" of 273 groups. Although the composition of this saturation program was revised four times , the total figure of 273 groups was not again changed during World War II.

Expansion planning contemplated that no more than one-third of the combat strength of the AAF would be based in the continental United States at any one time, but it provided that each combat group so accommodated would have one main base and four sub-bases.⁷¹ During 1942 the bulk of the construction program was directly related to actual defense and mobilization needs. In October 1942, however, Donald Felson, Chief of the War Production Board, pointed out that Army construction projects might absorb

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as much as one-fourth of the total war effort during 1943, and he asked the Secretary of War to prepare a list of projected projects which could be abandoned. The AAF Director of Base Services, fearing that this meant that the WFB would begin to review all construction projects, recommended that all AAF construction should be programmed as quickly as possible and even ahead of need lest delays be encountered when new facilities were needed. The Air Staff argroved the recommendation with the reservation that the AAF must not accumulate any considerable number of "ghost villages" awaiting occupants. Although the WPB never assumed an active review of Army contand construction to an end as quickly as possible. During November 1942 all AAF agencies were thus required to request all projects, "ruthlessly pruned to the bare essentials," which would be needed on the basis of the saturation of air power objective of 273 cembat groups.⁷²

The war emergency mode it evident that simplifications of constructional requirements and techniques were in order. "The approved program for the AAF," wrote General Arnold on 17 January 1942, "requires an expansion of such magnitude that a complete overhauling of our plans and concepts of requirements is essential." To the end of securing "Spartan simplicity" he specified four general principles for new construction: (1) conservation of funds, materials, and national effort; (2) efficiency of operation; (3) maximum use of available $f_{\rm fc}$ cilities--military and civilian; and (2) elimination of non-essentials.⁷³ Later in the same month, General Arnold personally warned his A-4 that all "frills and non-essential items would be eliminated and only the bare essentials would be approved" in planned construction.⁷⁴ On 4 February 1942 the War Department directed

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that all new building, except where advance planning was complete, would be of a much chearer theater of operations type of construction rather 75 than the mobilization type structures erected during 1939-1941. On 7February the War Department issued a long directive ordering available facilities to be used to the fullest extent, defining the means by which the Corps of Engineers should lease or purchase land, cautioning all commanders not to make commitments to civilian property owners prior to action by the Chief of Engineers, and stating that local political entities should not be encouraged to bid for Army stations in excess of their means. 76 On 24 February it directed that "construction not actually indispensable should not be undertaken."⁷⁷ On 20 May the Secretaries of the War and Mavy departments and the Chairman of the Mar Production Foard agreed that no construction project would be approved unless it was essential, could not be postponed without hurting the war effort, could not be replaced by renting facilities, would not cause duplication, represented all possible economies, and was the most simple structure possible. The Mar Department directed the AAF to be bound by the agreement in letter and in sririt.

At the same time that the War Department and the AAF were seeking to curtail inessential construction, they were also making efforts to speed up the building of deserving projects. On 25 January 1942 the AAF authorized station commanders at some 10 bases (where construction was needed by the 34-group expansion) to approve the local layout plans.⁷⁹ Early in "arch it directed that layouts for expansion of existing stations and for the construction of new bases should be prepared by the District Engineers in cooperation with local commonders and would be approved by

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the air force or inderendent concerned. ⁶⁰ Copies of such approved layouts were to be forwarded to the Buildings and Grounds Division, CCAC, 81 The AAF also sought to increment its housing facilifor information. ties by leasing. Late in January it authorized 5,000,000 for leasing the housing required by AAF recruits prior to the availability of station housing. Selection of these leaseholds was made the responsibility of the Chief of the Air Corps, and the Chief of Engineers was authorized to make such leases at a cost of not more than 510 per month per man. General Arnold, however, fearing that this experiment might not be successful, ordered that leasing would be regarded as only a "stop-gap" for the solution of the housing program. On 3 February the OCAC was directed to regard leasing as a terrorary solution and to rush building to the utmost, utilizing the existing commercial airrorts and tent camps as much as possible.⁸⁴ In Earch the ceiling on lease costs was raised to #15 per man per month where all utilities were furniched.

The reorganization of the Army Air Forces on 9 March 1942 effected a decentralization of construction procedures. In April the AAF invested the companders of its air forces and contrands with responsibility for site selection. They were normally to forward their recommended sites to the AAF for approval, but emergency requests for real estate procurement could be submitted directly to the local Division Engineers. All real estate acquisition requiring annual rentals of more than 050,000 or permanent acquisition had to be processed through the OCE and required the approval of the Under Secretary of War. The AAF also set up funds of 250,000 for each of the four air forces and for the Southeast Air Corps. Training Center, permitting their commenders to draw on the funds for

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emergency projects costing not more than \$20,000.⁸⁷ On 23 July, pursuant to agreement with the AAF, the Chief of Engineers authorized his **Bivision** Engineers to approve and construct projects costing not more than \$40,000 88 on the request of the air forces and independent commends.

Such a decentralization of authority made some safeguards necessary. Unfortunate commitments to sites which could not be occupied led the Director of Military Requirements to enunciate an iron-cled policy that all sites had to be approved by the Interdepartmental Air Traffic Control 89 Board prior to any action toward site acquisition by the Chief of Engineers. The Directorate of Base Services required that it be notified currently of all plans for new AAF installations, and in August it requested that each District Engineer be notified to send three copies of new site board re-orts directly to it for immediate initiation of action. It was also necessary to emphasize that the delegation of authority to local commanders to approve layout plans did not permit any modification of established AAF base safety requirements.⁹¹ In September 1942 liaison officers were established with each of the Division Engineers to represent AAF headquarters during the preparation of layout and other construc-92 tional plans and to insure compliance with AAF safety requirements.

One additional AAF reorganization--that of 29 March 1943--sought to eliminate the distinctions between the policy staff and the operating staff in the headquarters establishment. Thus the Base Services Division was transferred to the new AC/AS, Materiel, Maintenence, and Distribution. There, as the Air Installations Division, it continued to exercise supervision over the execution of AAF bace installations policies during the remainder of World War II.⁹³ These decentralizations and changes in technique represented significant modifications of the pre-war construction

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procedures. While most of the responsibility for construction remained with the headquarters of the AAF, the subordinate commanders had, in effect, gained the privilege of initiating and supervising the construction of projects which they needed for the performance of their assigned duties.

Flying Training Fields. Preliminary planning for doubling the 30,000pilot-training rate had been accomplished as a part of that program, but these plans remained in suspension until Pearl Harbor. After 7 December 1941, however, the three flying training centers were directed to achieve annual pilot-output rates of 50,000, then 70,000, and finally 102,000 pilots and corresponding numbers of combat crew members. In consideration of a number of critical shortages and of the stabilization of tactical air strength at 273 groups, the 102,000 commitment was scramped in December 1942. The maximum limits of these programs were by no means static: the 50,000 objective ranged upward to 55,000 to include foreign cadets and the 70,000 objective actually came to include 75,000 American and 5,000 Fritish cadets. With the demise of the 102,000 program a more realistic figure of some 93,600 pilots was set in June 1943, and the peak of the pilot training was reached in the fall of that year. There-94 after the training rate began to decline.

The initiation of the construction programs to accompany these training augmentations was undertaken by the OCAC and the three training centers, but on 23 January 19/2 the Air Corps Flying Training Command was established as a new echelon in the cormand channels directly above the training centers.⁹⁵ The headquarters of this new organization, commanded by Major General B. K. Yount, were located temporarily with the OCAC, but on 1 July 1942 it was moved to leased space at Fort Worth, Tex.⁹⁶

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After the March 1942 reorganization this command assumed a responsibility for the flying training station construction similar to that vested in the four continental air forces. Frimary initiative for the acquisition of the facilities needed to actuate the 55,000 rate of training, however, largely rested with the three training centers. Their problems in site selection were, as usual, somewhat diverse, but all encountered competition for desirable sites, all encountered political pessures, and all were hard pressed by the small amount of time permitted to site selection. Happily, however, a considerable body of information in regard to sites had been built up during the investigations of 1940-1941 which was available as a basis for first planning. For the first time since 1940 the centers were permitted and encouraged to utilize existing municipal fields for training stations.

The final recommendation of the Southeast Training Center for doubling its 30,000 training rate had contemplated 10 new civil primary schools, I new basic school, 2 new advanced twin-engine schools, and 1 new flexible gunnery school. On 31 December 1941 the OCAC directed the center to take immediate action to select sites needed to triple the 30,000 rate, and on 2 January the center was instructed to select the mittee for stations needed to accomplish its share of a 70,000 training rate. The deadline for the selection of sites for the 50,000 program was set for 28 February. To meet this objective the center recommended five new primary schools for Camden, Ark., Jackson and Union City, Tenn., Lafayette, La., and Clarksdale, Miss. Two new basic schools were sited at Bainbridge, Ga. (arproved on 14 March), and at Dyersburg, Tenn., a site which was abandoned in fevor of Valnut Ridge, Ark., when grading costs for an over-all field

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proved to be excessive. A single-engine school was sited at Marianna, Fla., and the construction of two new twin-engine schools was approved for Blytheville, Ark. (on 30 March), and at Lawrenceville, Ill. (on 8 April). By February, after considerable indecision as to whether such a facility could be opened at Maxwell, the center had selected a site at Massification center. A flexible gunnery school was sited and authorized for Ft. Myers, Fla., and a navigation school was placed at Monroe, Le. On 10 February the center host Earksdale Field to the Third Air Force; the benbardier training conducted there was moved to Kirtland Field, Albuquerque, M. Mex., a station just acquired 98 by training activities.

The problems encountered in selecting and developing these stations were multifold. The necessity to avoid air congection forced the training into Arkansas, Tennessee, and Illinois. Fields in the Mississippi delta and in Florida presented drainage problems; others, such as Eainbridge, presented grading difficulties. Construction of the theater of operations housing at Nashville was initially delayed by a prohibition on over-time labor, low priorities for critical materials such as cast-iron water pipes caused additional delays, but the first aviation cadets were sent there on 15 July 1942. The navigation school at Selman Field, Nonroe, La., was also delayed by critical materials, but occupancy was taken on 15 September. Despite drainage difficulties, the new Euckingham Army Airfield at Ft. Nyers, Fla., was found to be "adequate" to initiate training in September. At Marianna excessive rains hindered building, but by working twenty-four hours a day the field was ready for the training deadline 11 October. Final completion of the station at Bainbridge

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was held up by non-delivery of critical materials, but the field opened on 7 August. The long indecision in regard to Dyersburg necessarily delayed the completion of its substitute, Walnut Rid-e, which did not begin basic flight training until 12 October. George Field, Lawrenceville, Ill., made use of 23 abandored CCC buildings which were moved to its site, and it began training during the fall of 1942. Eecause of the holdup at Walnut Ridge three classes of basic flight training were given at the new Blytheville station, beginning on 6 August. The cadets, however, had to live under virtual field conditions and the training aircraft operated from oiled strips. The primary school expansion was accomplished with an unprecedented speed. Cn 31 December 1941 the Defense Flant Corroration, a subsidiary of the Reconstruction Finance Corroration, purchased all of the civil primary schools (except Tuscaloosa and the Tuskegee Institute) and leased them to their civil operators. The core corporation also financed and supervised the construction of the five additional primary schools needed by the 50,000 training rate in the Southeast Training Center. 100

The expansion of the Southeast Training Center's stations to meet the 70,000 training rote followed closely on the heels of the 50,000 expansion. On 30 March 1942 the Flying Training Commond directed the center to locate stations to meet its share of an 80,000-pilot training program by 24 April. Through a great decentralization of site selection activity and much oral communication via telephone channels, the center's site boards located four new basic schools at Newport, Ark. (authorized for construction on 1 May), Greenwood, Miss., Courtland, Ala. (both authorized on 5 May), and Malden, Mo. (authorized on 15 July). Advanced twin-

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engine schools were authorized for Stuttgart, Ark. (30 April), and for Freeman Field, Seymour, Ind. (2 May). Two additional primary schools were established at Cape Girardeau, Mo., and Clewiston, Fla.

The same shortages and weather difficulties which were delaying the 50,000-pilot constructional program hindered construction under the simultaneous 70,000-pilot corstruction objective. Greenwood, scheduled for completion on 1 January 1943, was delayed by rains which provented soil stabilization; yet basic flight training began on 28 December 1942. Lack of equipment, short labor, tornado winds, and inclement weather delayed paving at Newport, but the airfield began training on 30 December 1942. The basic school at Courtland, Ala., began training on 1 February 1943. The fourth basic school--Malden, Mo.--was delayed by snow and rain, shorteges of materials, and abnormal transfers of area engineering personnel. It could not begin to train until 1 May 1943. Stuttgart, projected as a twin-engine school, was suprosed to have been completed by 1 October 1942, but the typical difficulties plaguing construction caused delays. The field, however, was taken over for glider training in October and did not serve as a twin-engine school until May 1943. Freeman Field at Seymour, Ind., delayed by weather and the usual priorities difficulties, began training on 2 March 1943. Jurisdiction over the Third Air Force base at Jackson, Hiss., was assumed on 1 May 1942, and the air base was used for Netherlands East Indies cadet training.

The increased training responsibilities also forced the Southeast Training Center to expand its pre-Pearl Harbor stations. Maxwell Field obtained additional barracks and its landing field was belatedly expanded to bring it up to proper operational characteristics. All-over landing

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fields, consisting of graded and turfed areas between runways, were allowed at most of the center's airfields. Auxiliary fields were secured (in part from CAA fields) and improved, approximately on the basis of one field to each 100 students in training at each station. Sub-bases for the gunnery schools at Tyndall and Buckingham were acquired and developed at Apalachicola and Naples, Fla.

To double the 30,000 training rate, the Gulf Cosst Training Center had recorrended on 5 September 1941 that it would need two new primary schools, two new basic schools, one new single-engine school, and two new twin-engine schools. On 10 December 1941 the OCAC requested it to make a new plan for expansion based on a 50,000 rate and taking cognizance of the fact that undue expansion of existing stations might result in "oversaturating the air space." The comprehensive reply of the training center, forwarded on 22 December, recommended no additional primary schools, establishment of two new basic schools, one new single-engine school, and four new twin-engine schools. All navigation training was to be given at Brooks, all observation training at Kelly, and all flexible gunnery training at Harlingen, but four additional bombardier schools were to be needed. On 31 December the OCAC ordered the center to start selecting sites for the 50,000 training rate, and on 16 January 1942 the War Department ordered the center to appoint the site boards needed for such work. An almost immediate deadline for these recommendations was fixed by the CCAC, and by a telegram dispatched on 24 January the center recommended the establishment of two bombardier schools at the new municipal airports at San Angelo and Big Spring, Tex., one advanced single-engine school at the Eagle Pass, Tex., municipal airport, two advanced twin-engine schools at the Lubbock and Maco, Tex., municipal airfields, a new basic school

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at the Sweetwater, Tex., municipal field, a new instructors' school at Stinson Field, San Antonio, Tex., and a new navigation school at Hondo, Tex. Brooks was to become a basic school as soon as observation training could be moved to Kelly. Most of these sites had been favorably recommended in earlier investigations. A decision reached on 10 February not to expand observation training allowed Kelly to continue to serve a twinengine school and the instructors school. Greenville, Tex., was recommended as a basic school to replace Kelly, and difficulties at Sweetwater in locating a building area led to a search for another basic school site. This school was finally set up for Coffeyville, Kans. After much investigation of existing facilities which could be leased, the center finally decided to build its classification center at Kelly Field. The center established no new civil primary schools to meet the 50,000 objective; it secured the expansion of its existing 16 primary schools by relocation of facilities at the main fields and by providing from three to nine auxiliary fields for each of the primary schools.

The constructional problems in the Gulf Const Training Center roughly paralleled those in the Southeast, but in general it seems to have encountered less delay. Majors Field at Greenville, Tex., and the airfield at Coffeyville, Kans., began flight training on 7 September and 12 November 1942. Both stations, however, were still under construction at the time. Coffeyville began training with no hangars; mud, snow, ice, and cold winds lowered the efficiency of both maintenance and training. The bombardier school at San Angelo used a CAA improved field, and the construction of all of its facilities was nearly complete when training. began on 26 September. The other bombardier school at Big Spring also

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used an improved field, and it began training on 25 September. The singleengine school at Eagle Fass, utilizing still another municipal field, began training on 12 November. Facilities were rushed at a new site near Hondo, and on 8 August the navigation school was moved there from Kelly Field. The twin-engine school at Blackland Field, Waco, Tex., opened for training on 15 December. South Flains Army Airfield at Lubbock, Tex., projected as a twin-engine school, was opened instead as a glider pilot school on 15 July.

Planning for the installations to be needed for the 70,000 training rate virtually coincided with that for the 50,000 program in the Gulf Const Training Center. Cn 30 Farch 1942 the Flying Training Command asked for an immediate decision on the new sites, and the next day the Center recommended Coffeyville and Winfield, Kans., for basic schools; Everman, Tex., for an advanced single-engine school; and Vernon, Lamesa, and Plainview, Tex., and Altus, Okla., for advanced twin-engine schools. These recommendations were modified by the evolving situation, and on 7 April four site boards were appointed by the center to study the problem. Coffeyville had to be substituted into the 50,000 program, Everman was disapproved by the AAF because of its commitments to the Navy, Lamesa and Plainview were drorped because of air-space congestion. Durant, Ckla., was substituted for Coffeyville,; Fampa, Tex., for Lamesa; San Marcos for Everman. 'Later a site at Frederick, Ckla., was taken in place of Vernon, possibly to appease Cklahoma rolitical interests. In May the possibility that lake Charles, Ia., a field unsuited for night training because of persistently low overcasts and night fogs, could be traded off to the the Third Air Force presented itself, and a site at Bryan, Tex., was

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finally selected to replace it. In June the airfields at Garden City and Dodge City, Kans., which were being developed for British training, were transferred to the center, and the field at Liberal, Fans., was similarly precented to the center in September. These casy acquisitions permitted some readjustment, and accordingly the civil school at Brady which had been used as a basic flight school was recorverted into a primary school. San Marcos was changed from a single-engine school to a navigation school. The decision to turn Bryan into an instructors school led to the selection of another site for the school which was to be poved from Lake Charles. This cite was located at Victoria, Tex. Sites at Childress, Del Rio, and Laredo, Tex., were provosed on 31 March for bombardier schools, but Laredo was later used for a gunnery school. By this almost incredible arount of trading and substitution, the center filled its needs for new school sites. It also obtained three additional civil primary schools at Avenger Field, Sweetwater, Tex., at Waxahatchie and El Reno, Tex., and the primary schools used by the British at Fonca City, Ckla., Miami, 103 Okla., and Terrell, Tex.

There were additional changes in the utilization of the stations between the time of the initiation of construction and its completion. The station at Bryan opened as an instructors school on 21 March 1943. Aloe Army Airfield at Victoria received the single-engine school from Lake Charles on 12 January 1943. Del Rio became a B-26 transition school instead of a borbardier school, and the three other bombardier schools were extended to make up the difference. On 26 April 1943 the station at Dodge City also opened as a B-26 transition school. Garden City, considered as a twin-engine school during the planning, opened as a basic school on

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16 January 19/3. Liberal, the third of the Kansas stations criginally intended for the Fritish, began for r-engine transition training on 22 March 1943. The twin-engine school at Frederick, Ckla., began training on 23 Spril 1943, while that at Altuc began training on 16 January 1943. Strother Field, Minfield, Kans., began basic training on 15 December 1942; Laredo started gunnery training on 30 November 1942; Iampa opened twin-engine training on 13 December 1942; San Marcos started its first class of navigators on 22 February 1943; and Childress began bombardier training on 20 February 1943. Still anoth r basin flight school opened at Independence, Kans., on 22 March 1943. Typical constructional difficulties were encountered at most of these fields. In addition, work at Aloe was showed by a hurricane, work at Garden City was slowed by dust storrs, and construction at Independence was hindered by a hard winter. New auxiliary fields were provided for these as well as for the older training stations in the 109 canter.

Froblems of site selection for the 50,000 and 70,000 programs were most perplexing in the Mest Coast Training Center. There, because of geographical and elimatic characteristics, it ultimately became necessary to select sites with elevations higher than were deemed best, where utilities were hard to obtain, and where weather was not ideal. The task was further complicated by the necessity of avoiding the coastal defense areas along the Facific. For the proposed doubling of the 30,000 training rate, the center had recommended on 21 August 1941 that it would have to and six primary schools, to convert four existing primary schools into basic schools, and to open two new advanced schools. On 26 December 1941 the OCAC directed the center to make immediate plans to train on a 50,000-

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pilot level, and five days leter the projected plan requiring an output of 70,000 pilots per year was explained to the center. Official instructions to appoint site boards were insued on 16 January 1942. During the letter wirt of the same month sites were inspected at Parana, Ariz. (near Tueson), near Pobbs, F. Mex., at Carlsbad, F. Mex., and at Fecos, Tex., and early in Parch a site board recommended Dening, N. Mex. All of these sites were subrequently cleared for schools. Four additional civil primery schools were needed, and during January a second primery school was sited at Phoenix, Ariz., near that already operating there (Thunderbird Field). During January and February a primery school was located near Biethe, Calif., and the remaining primery schools were located with somewhat more difficulty at Dos Palos, Galif., and Fort Stockton, Tex. The 1-ther site was cleared although it was in the Gulf Const Training LIO Center's area of operations.

The new static of wore brought into use fairly quickly. Eirtland Field, Albuquerque, F. Hex., was acquired from the Fourth Air Force (which was concentrating on the Facific Cost) shortly after Fearl Harbor, and it began functioning as a bombardier school on 16 December 1941. Construction began at the Harana site on 16 Arril and was far enough comrleted to permit the floot basic training to begin on 29 August 1942. Desrite nevere local dust storms construction was rushed at Fecos, thus remitting basic flight training to begin on 2 September. The school at Carlsbad mode use of a municipal field, and construction, which began in May, was far enough advanced to permit be-bardler training in Cotober. Hobbs began training during the first week in September as a four-engine

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transition school. Final approval of the Dering site was not given until April, and be bardier training consequently could not begin until the middle of December 1942. All of these fields were still under construction when they were opened. Marana, for example, had no landing area other than a fairly level strip of desert, and a detail of men had to fill rat holes on the landing surface daily. At Fecos no dust palliatives or sodding had been possible, and at times the dust was so thick that visibility was cut to 100 fect. Both Fecos and Fort Stockton suffered from writer shortages. Few of the towns near the stations could house personnel entitled to live off the posts. At Marana civilian employees had to corrute 64 miles a

day to and from Tucson. The first classification work was carried on at tenrorary detachments at Finter and Williams Fields, but this function was concentrated at Santa Ana when the classification center opened there 111 on 15 June 1942.

Although much of the planning had been done, the sites for additional schools needed for the 70,000 training rate in the Vest Goast Training Center were formally chosen during April 19/2. The center recommended sites at Douglas, Kingman, and Yuma, Ariz., and at Marfa, Tex. Another school, planned for Winslow, Ariz., was changed to La Junta, Colo., when the field under construction there was released by the Eritish training program. Two new civil schools were acquired at Twenty-Nine Falms, Calif., and at Wickenburg, Ariz. Both stations had been built for the glider training effort and both began primary flight training in March 1943. Because of conflicts with defense activities the primary school which had been operating at San Diego, Calif., was neved to Tucson, Ariz., and opened there on 28 July 1942. Pasic students at Contario were trans-

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ferred to facilities being given up by the British at Lancaster, Calif., and some American students were entered in the primary school at Mesa, Ariz., when the British began curtaiing training there in November 1942.

These new desert stations were brought into use as expeditiously as was rotable desrite problems of unavailable civilian housing, hard water in scarce surply, dust, and extremently high temperatures which lowered morele and training effectiveness. At La Junte the center acquired British facilities which were nearly ninety per cent complete, and training at the advanced twin-engine school there began on 2 November 1942. Kingman, used as a gunnery school because of the excellent ranges nearby, began training in January 1973. Advanced single-engine training began at Yuma on 6 January 1073. Work began at Dougles in June 1972, and the station began to function as a twin-engine school on 7 December 1942. On 22 May 1943 the field at Fort Summer, N. Mex., which had been training glider pilots was changed to an advanced twin-engine pilot school.

Procurement of facilities for the expanding AAF glider pilot programs accompanied the 50,000- and 70,000-pilot augmentations. After a long period of studied indifference to glider training, the AAF had begun a small training program in June 1941, making use of civil schools at Elmira, N. Y., and Lockport, Ill. An additional school was opened under a civilian contractor at Twenty-Nine Falms, Calif., in January 1942. German military successes with glider transport, particularly the invasion of Crete, caused the AAF to issue during 1942 a number of glider training objectives which were secungly incongruous with both the materiel availlu4 able for training and the tactical need for such personnel. For the

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most part the training centers used civil schools and Army fields which were under construction to meet the bulk of their glider pilot training responsibilities. The Southeast Training Center took over the civil school at Elmira on 1 May 1942 and subsequently obtained civil schools at Grand Forks, N. D., Crockston, Rochester, Stillwhter, and Monticello, Minn., and at Janesville and Antigo, Wisc. The Elmira school was moved to Mobile, Ala., in June 1942. Two other schools were opened at Starkville, Miss., and Greenville, S. C.; good results were obtained at Greenville but Starkville vas abandoned on 9 October 1942. Lockbourne Field, being built as an all-purrose air base, was obtained as a temporary glider school in June 1942 and was used until October 1942 as an advanced glider pilot school. The training was then moved to the airfield under construction at Stuttgart, Ark., opening there on 12 October. During the spring of 1943 all glider training activities of the Scutheast Training Center were closed. The Gulf Coast Training Center in December 1942 maintained civil contract elementary glider schools at Denton, Tex., Hamilton, Tex., Ckmulgee, Ckla., and Pittsburg, Kans.; basic glider schools at Lamesa, Tex., and Vinita, Ckla.; and Army advanced glider schools at Dalhart and Lubbock (South Plains Army Airfield), Tex. Prior to this time the center had used schools at Spencer, Iowa, Hays, Kans., Lonoke, Ark., Aberdeen, S. D., Goodland, Kans., and Amarillo, Tex. The schools at Hays had moved to Denton in September, those at Spencer had moved to Hamilton in October, and the other three had been discontinued. During the spring of 1943 all of the schools except that at South Plains, which remained the only Army advanced glider training school, were closed. The West Coast

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Training Center had begun its glider pilot training at the Twenty-Mine Falms school in January 1942, and during 1942 it had obtained jurisdiction over other contract schools at Wickenburg, Ariz., Fort Morgan, Colo., Clovis (Tucumegri), F. Mex., Big Spring (Artesia), Tex., Flainview, Tex., and an Army advanced glider school at Fort Summer, N. Nex. In November 1942 another Army advanced glider school was opened at Victorville, Calif. During the carly part of 1943, in compliance with the Flying Training Command's order to cease glider training, all of the schools were closed 117 and glider training was corcentrated at South Flains.

The completion of the construction required to meet the 70,000 pilot objective marked the reak of the flying training facility expansion. Although a considerable amount of planning was conducted for expansion for a 102,000-pilot training rate, this planning was scrapped in December 1942. The further training extansions were met by reducing the living space per man to 40 square feet, by the use of tentage, field kitchens, and pit latrines, and by the procurement of some additional auxiliary fields.

Technical Training Facilities. The program of expansion thrust upon the AAF Technical Training Command by the beginning of American participation in World War II was ultimately to involve a six-fold increase in the 100,000 training rate operative in December 1941. The procurement of facilities for this great expansion was schewhat complicated by the fact that during most of 1942 and 1943 the command had no definitely scheduled over-all training objectives; in effect it had to train the men who were 119 On 20 January 1942, however, the command was given the authority to appoint its own site boards, and during the spring of 1942, as has been seen, the

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AAF made arrangements for permitting the command to lease additional interim facilities which were nee ed for the rapid augmentation of the strength 120 of the AAF.

New headquarters were occasioned by the trairing augmentation and new facilities had to be provided for them, l'ajor General Walter R. Weaver assumed corriand of the Technical Training Command on 18 February 1942. and almost immediately he announced that command headquarters would be moved to the small resort community of Finehurst-Scuthern Fines, N. C., where it would be "in close proximity to Washington." Transfer of the headquarters to a hotel (which was leased for .30,800 a year) was accomplished on 15 April. The airrort, called Knollwood Field, also had to be improved for the use of the headq arters, and after several additional hotels were leased, the headquarters v.s accommodated as well as po_sible in a community which arrarently resented the present of the Army. Cn 5 March the Mar Department directed the organization of four district headquarters within the Technical Training Command: the First District (with headquarters at Raleigh, N. C.), Second District (with headquarters at St. Louis, Mo.), Third District (with headquarters at Tulca, Orla.), al Fourth District (with heedquarters st Denver, Colo.). Each of the district cormanders was rut in general supervision of the technical schools in his geographical district, and General Meaver also charged them with the general responsibility of selecting facilities to house their personnel. All final plans for construction, however, had to be forwarded to the headquarters of the Technical Training Cormand, and thence to the , AAF. In September 1942 the district commanders were authorized to take final action in the name of the Technical Training Command for projects

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costing less than (20,000. They were authorized to approve layouts, to make minor chapters in plans, and to approve plot plans for construction at factory schools. On 30 November 1942 a Fifth District was activated to control all technical training activities in the state of Florida. Each of the district headquarters occupied lessed space.

Fursuant to General Arnold's directions to push construction and to leave for inmediate needs, the Technical Training Corrand Launched a program along both lines. During 1942 and 1943 eight new technical training installations were rurhed into operation. At Yearns, Utah (just outside of Salt Lake City), a plot of 1,405 acres was purchased, a contract for a theater of operations contenment was let on 16 June, and Dasie Training Center No. 5, was opened on 20 July, although construction was not completed until October 1942. A construction directive on Lasic Training Center No. 10 at Goldsboro, N. C., was issued to the Corps of Engineers on 12 October 19/3, but the post, delayed in construction by rain, was not activated until Larch 19/3. Land adjacent to the Madison, Visc., municipal airrort was purchased, the airport was leased in April 1942, a cantonment was constructed, and on 3 August 1942 classes were begun at Truax Field in Radio School No. 3. The location of the cantonment area in a former peat bog (a decision dictated by the fact that no other area of sufficient size could be had adjacent to the airfield) ultimately raised the costs of construction by \$6,000,000 over the original estimated cost of 12,000,000. By September 1945 Truax with a capacity of 16,774 men had cost 218,253,051 while Amarillo with a housing capacity of 16,778 had cost only \$13,912,974. Radio School No. 4 was located on a leaced site adjacent to the Sioux Falls, S. D., municipal airport. Despite

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122 storm damages in May, the school began training on 2 July 1942.

All of the new mechanics schools were located adjacent to municipal airfields. At Amarillo, Tex., the government leased lard adjacent to English Field on 26 Morch 1942, and by August the contonment was approaching completion. Training began on 7 September 1942. Construction ran nearly two months ahead of schedule at Lincoln, Neb., and the school began there on 6 July 1942. The mechanics school at Seymour Johnson Field, Greensboro, N. C., began $tr_{\rm p}$ ining on 10 August 1942 while its cantonment was still under construction. At Gulfport, Mics., the government leased the field which was being improved by the CAA and, although construction was only about two-thirds complete at the time, training began on 2 September 1942.

Since the construction of these installations was relatively simple, requiring only thester of operations housing with limited airfield development, the time interval between the initiation of work and actual use of the stations was fairly short. Construction costs, however, soared under the expedited procedures. By Septerber 1945 the eight stations originally constructed for the Technical Training Command, with a combined housing capacity of 130,924 bad cost \$120,673,862. The stations were among the most expensive constructed for the AAF. The quick utilization of these roughly constructed facilities also caused some hardships to personnel so housed. Respiratory diseases at Kearns, Truax, and Sioux Falls constituted an almost constant problem during the winter months. Inclement weather turned the partly completed camps into muldy bogs.¹²⁴

The great influx of men during 1942 also brought about an expansion of existing facilities. Construction of a cantonment at Buckley Field,

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previously a field auxiliary to Lowry, was begun on 5 May, and by 6 July 1942 armament training was begun there. Space allotments at the older posts were reduced from 50 square feet per man to 40 square feet per man in accordance with Army Regulation 40-205 issued on 31 December 1942. Tent camps were erected to take care the overflow. One huge tent camp at Jefferson Berracks, housing approximately 12,000 men, caused great difficulties: deteriorating canvas during the spring of 1942 made for health hazards, and the fact that some of the men housed there had to march an excessive distance for their meals added to the inefficiency of the arrangement. In June 1942 this camp was ordered abandoned. Across the river, Scott Field in Earch 1942 was housing 12,505 enlisted men in barracks designed for 11,340. At Sherrard Field barracks were so crowded that there was "Jittle more than sheering room."¹²⁵

Even with the construction of new stations and with the utmost expansion of the older stations, it was still manifestly impossible for the Technical Training Command to have and train all of its personnel in Army installations. Encilities which could be leased had to furnish a "stop-gap" solution to the problem. General Weaver, a man known for his vigorous actions, seems to have decided fairly early that he could use the hotels of the nation--especially those in resort areas which were going to be hard preased by the war emergency--to house a part of his corrend. The AAF regarded this plan as a somewhat hazardous experiment, and many civilians thought the whole thing smacked of military occupation and soft living. General Meaver, however, maintained that "the best hotel room is none too good for the American soldier."¹²⁶ Miami Beach, Fla., had hotels and apartments for 90,000 winter tourists, and late in

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1941 it was faced with the prospect of a greatly curtailed tourist trade. Early in February 1942 a group of Miami citizens accordingly informed General Meaver that 17,000 rooms were immediately available and that 70,000 could be had by April. Within five days after the arrival of General Weaver in Miani on 18 February, the Air Corps Officer Candidate School was located in leased facilities at l'iami Bench. During the summer and fall of 1942 two additional basic training centers and an Cfficers Training School were opened there, and at the reak of its operations at Miami the Army housed about 82,000 men in some 326 hotels and arartment 127 houses. In June 1942 facilities in the hotels and agartment houses at St. Petersburg and Clearwater, Fla., were leased for Bosic Training Center No. 6. Eventually some 58 hotels and arartment buildings were leased, and from February to April 1942 (while Kearns was almost inoperative due to a respiratory eridemic) an additional 10,000 man tent camp was Basic Training Center No. 7 was established in 42 hotels at 128 in use. During the fall of 1:42 the quota Atlantic City, N. J., in June 1942. of radio operators to be trained was suddenly increased from 48,000 to 101,000, an augmentation to be accomplished by the erd of the year. Because of the procesure of the training, General Weaver secured condemnation proceedings enabling the government to take over the Stevens, Congress, and Auditorium Hotels in down town Chicago by 1 August 1942. The Corps of Engineers subsequently bought the Stevens for \$6,000,000 since it was more economical to buy it than to pay the rent which the courts were about to allow. Several other buildings were leaged through condemnation, and classes at Hadio School No. 5 began on 1 September. At Grand Rapids, Mich., two hotels and several other buildings were leased under more

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anicable circumstances during the fall of 19/2 for the use of a specialized weather school. The radar school, noved from Scott to Formison Field in February 1942, was transferred to eccupy a leg ed club at Roca anter, Fla., in Eng 19/2. Additional contenment housing and an airfield were subsequently built for this school.

Other miccellaneous facilities were leased either in whole or in part for the extending Lechnical Training Corrend. The Precno, Calif., county fairgroun's, which had been used as a Japanese alien internment camp, was acquir d by the Secondard Training Command, and on 29 Cetober 1942 Paste Training Center "c. " was opened there while the Japanese were still being 133 ovecuated. The Reperal Indian Johool at Tomab, Misc., was taken over from the Interior Department, and the first classes of a control network system radio cohech began on 3' Vorenber 1942. Fawling Frequentory School for Boys, Fawling, V. Y., was leaved in Cetober 1922 for training cryptographers. Valley Forge Military Academy at Mayne, Fa., began a recorntory course for 5% ground duty aviation codets in November 1942. These calets were quartered in acodemy buildings at a cost to the government of three dollars per man a way, but the academy gave so a treating in addition to housing the codets. In December 1942 a contract was executed with Vale University whereby the university leased facilities for the training of the communications, engineering, armament and photomaphy aviation cadets. These detachments were transferred from Scott, Chanute, and Ioury Fields in January 1923. Harrisburg Academy at "arrishurg, Ia., was leaded for the Air Intelligence School, which opened 138 there in Arril 19/2.

In addition to these leased facilities, the Technical Training Command

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farmed out a great number of its trainees to civilian institutions. Varvard University began training classes of 30° student officers every 132 five weeks in June 1942 in a special statistical course. Other men were given training in civil contract technical schools, mechanical schools, and in factory training schools. In May 1943, shortly before such detached training vas curtailed, the command had students in 35 contract technical schools, in 13 civilian mechanics schools, in 11 factory training schools, and in 5 machinist schools. Meteorology training was being given at that time in 5 colleges and universities, and 11 colleges and 140 univercities were giving clerical training. Vousing at most of these factory, technical, and muc anics schools was usually fair to unsatisfactory. Fotels, Farracks, YMCA buildings, hangers, motor courts, and industrial buildings were used by such schools in the Second District. At one cohool the students had to use the showers at a high school two blocks from their living quarters. 141

The employment of these leared facilities was undeubtedly less satisfactory then the use of Army contonments at regular stations would have been, but it did result in savings in labor and critical materials at a time when the nation's strength was hard pressed to mount a successful wor effort. From a long-renge viewpoint, capital and productive effort which would otherwise have gone into temporary barracks with little postwar calvare value to the nation was saved. In Cetober 1942 a Fouce investigating committee reported that the cost per man at liami was considerably below the amount which would have been spent in housing the same man in Army barrachs. Although the Senate's war investigating cormittee concluded that facilities hid been obtained at liami at an annual rental

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of 2,000,000 which would have cost 100,000,000 and would have taken the months to commute, it also thought that the AAF had exercised too much persuasion and even intimization in menotiating lea as there. It is also significant that the Arry, in its much criticized runch so of the Dtayons Total in Chicago (a hotal which had been built at an over-capitalized cost of arrows ately : 2,000,000) complete with its furgishings

for 4,000,000, letter realized 441,000 from the calc of surplus furnishinternal cold the botal after occurring it for note than a more for 142 5,000,000.

<u>Airfielts for Constituted and verlocement Tentuing</u>. Inforte Ford inch a the activation is a testmine of new ground hed been accomplicited by soluting off-colors from our course, filling on the new groups with reernits, an giving constrative training between the two excluse with reernits, an giving constrative training between the two excluse much the off-species had cufficient remember and shift to occupy a certate air have. Bitt the beginning of the use, here we, it was no essary to move a set of the old groups exercises, leaving only a few groups couche of giving remethed and training to off-species. However, the first and furth Air Ford a had incompany exercises missions and could give only limited attention to the training of new groups. The Specifier and Air Forces uses accordingly given the mission of training both new groups and rephicement ensus. The I Troop Courses. For a short time during 1942 the I Concentration for similar purphess. For a short time during 1942 the I Concentration for the new units in their oversees movements. The of these functions needed new air bases and auxiliary airfields.

For the first five months of 1972 the First Air Force devoted rest of its tive and attention to the air defence situation along the Atlantic

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const, but on 2 May the I Intercentor Cormard (to be redesignated on 15 lay as the I Fighter Command in the general redesignation of "gursuit" units as "fighter" units) was directed to lay out on Cib proman. Ly attaching a satellite group to each of its operating erears for three nonths of surerviced on-the-job training at its group and sousdron stations, it was to fill both defensive and training missions. (n 1 June the air force was formally directed to operate three Operational Training Units (OTUs), but it subrequently was able to open only two. These two CTU's, however, orwrated under the New York and Fhiledelphia Fighter Uints during 1942 and 1943. The Fourth Air Force, like the First Air Force, vas grimarily occupied with a defensive rission, but in May it was also directed to operate two on-the-job fighter CTU's and one CTU for F-38 units during Both of the air forces used their installations which 1942 and 1943. they had developed for defense in their training programs, and, except for some additional housing, they required no new facilities.

The Second Air Force, as has been seen, was relieved from defence activities on the Facific Const during January 1942 and assigned a mission of training heavy berbardment groups and replacement crews. The loss of its bases on the const, however, left the air force with only Fendleton, Goven, Geiger, and Salt Lake City for the initiation of its training. On 26 January Davis-Konthan Field at Tucson, Ariz., was transferred to it, and on 21 March the field nearing completion at the Merdover Fembirg Range 145 was elevated to the status of an air lass. On 1 March 1942, when the heavy herber development program was officially begun, the Second Air Force set up parent CTU groups at Davis-Menthan and Fendleton with their off-string groups at Geiger and Gowen. Use of Wendover and Salt Lake City

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Whe portron d until the next cycle of training six works later, when it was believed with r would be better. In Arril there two fields received 1/6 in order to bring up the bally deficient level of technical training, the Second Air Force established a cont in "M harpache at Yakura, hub., and trained mechanics at the Forry Institute that. Aroth r field raining unit for radio operators was not up, and "habir ten State College, Jullman, Tash., and two civil cherical schools much a college. For training summers and navirators it set up a college lat Camp Sector 16. 1/7 During Arril 16.2 a series of heavy techer accidents at lendleton led to the decision to each one the parent group there has the Avistion Engineer regiment in training at Davis-Northan. 1/8

This rearran utilized the existing facilities to the utmost. (n 1 incil 1977, Lajor Remond R. L. Partin, contains the Second Air Force, accordingly asked for the monid conclusion of the air or des being built at Table and the id Git, and for the condituation of new heavy bomber baces at locatello, Idalo, Greet Falls, Newt., Yalima, Mach., Salina, Kans., and Caster, Myo.¹⁴⁹ Each of these sites hid been reconcluseded by an 84proun site bound, and within a week the Directorate of Ease Services had forwarded requests for land acculsition at Salina, Great Falls, and Hocatello to the Corns of Engineers. Other requests for Casper and Takima seer to have followed.

(n 1/ "ay 1942 Irigation General Robert Cles ascumed cormand of the Second Air Force, and he almost immediately prepared larger expansion plans in anticiration of all heavy brakardment OU are ATH functions being

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assigned to the air force. By the end of May he had decided to abandon the idea of giving all training to new groups and corbat crews at single stations in favor of three phases of training, (ach of 30 days duration, to be given at separate stations. Third phase training was to be given under simulated corbat conditions and required the groups to operate from squadron airfields. His first casting of the program (somewhat changed in execution) required first phace bases at Geiger, Gower, and Davic-Nonthan; second phase bases at Walla Walla, Wendover, and Alamogordo; and third phase bases at Great Falls, with satellite squadron airdromes at Cutbany, Lewiston, and Glasgow, Mont.; Rarid City, S. Dak., with satellites at Pierre and Fhilip, S. Dak., and Scottsbluff, Neb.; and Sioux City, with satellites at Furor, Watertown, and Mason City, S. Dak. The location of the satellite airdremes w_n s obviously tentative. For the expansion of combat crew training during 1943 General CLes wanted to add airfields at Ephrata, Mach., Casper, Wyo., and Topeka to each of the three phases. For the expansion of OTU training during 1943 he wanted to add Focatello, Fueblo, and Salina to the three phases. Salt Lake City was to receive ard process all perconnel coming into the air force. This plan of 152 organization was approved by the AAF on 11 June 1942.

The specified plan for the use of air bases was almost immediately superseded as the Second Air Force embarked upon an extremely complicated negotiation for new facilities. Requirements were established and revoked almost according to the caprices of the daily situation. (n 1 June, for example, General Olds requested the assignment of such of the main bases mentioned in his plan as were not already in the Second Air Force fold. He also requested the sites or local airfields at Fratt, Fans., Lordsburg,

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JAM V (HON, ". Mox., Farle, N. Mox., and Man', Ser. As catellides for Malla Malla, he asked for the local airfields at lodras, edmind, and Durns, Cre. For air surrort use, he baied for the new bare at El Laco. Since he had no nood for "akima, General Clds mentioned that he had cancelled construction directives there. The sites requested were assigned, but almost at once the Jecond Air Force found that it did not need Lordsburg, Engle, and Winh. The field at Durns, heing built by the CAA at a site which General OL's found unsatisfactory for heavy borbardment was also released. In lances and 'obrasks, where the "avy had cleared for its use several of the fields desired by the Second Air Force, General Olds met additional di ficultion, and, after a great deal of hickering, he succeeded in retting only one dite--that at Grand Island, Neb .-- out of five sites defined. by July the concinaction program had begun to emerge in intelligible form. The AAF arroyed the construction of three bases with po-colled "blind" 1 cling fields beview one runway 10,000 by 590 feet in dimension, three discored entellies fields and 1% other potellite fields with normal merbing and tariways, and a new air base at Fysic, Tex. In A must the AAP authorized the construction of the over-sized larding fiel's, suitable both for instrument larlings and for 1-29 and P-32 operwhichs, nor Erhrata, Mark. (subsequently called Noses Lake Army Airfield), at Clovin, . May., and at Salina, Land. Ig December a fourth over-sized 156 Is ing field had been authorized for a new hase at 'ountain Home, Idaho.

The location of the catellite fields, however, continued to most charanne difficulties. In 9 Januar General (dds protested bitterly that the Jacob Air Force had "b on greatly hindered in mosting the complicants made ... in the production of heavy becomediant units and crows

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due to the slown as resulting arranently from the extremely complicated precedure involved in the argroval of construction projects and the issuance of construction directives." Fy 1 Cotober he required the use of catellites for Sioux City at Matertova and Mitchel, S. Dak., and at Corifner, Neb.; satellites for Great Falls at Cutban', Glasgow, and Invisto , Cont.; catellites for Marid City at Fierre, S. Dak., and at Aincurath and Scottabluff, Neb.; and satellites for fore's at runing, Neb., and at lairment and Verrington, Vans. by 1 ecember he wanted satellites for Salina at 'aller, Breat 'ond, and Fratt, Lans., an catellites for Valla Malla at Lairas and Medread, Cro. by 1 Sebruary he would need the satellites for Learney at 'oCcol, Irund Island, and Tervard, "cb. In reluted to the charges of undue (elsy, the Corrs of Engineers disclaimed "any ornt in delaying the construction of the Coe of the Force projects." "effere a oc struction lineality eculd be issued it led to be a tregram from the U.P. the life ind to be closed to the AA' with the InterSorartmonthal Air Confrol Control Courd, FL. ULLE - lealed to be a "rease able a contanno" that a real estate directive would be i such that any site acquisition procedure could be started. It took an average of less than one cay to j or a construction li contraction the receipt of a promon or a real clinte "irective, and construction had actually been initiated at the airficlde in ametion in an average time of lice than 13 are after the incumee of the construction directives. The C fice of the Oldef Frgireer, neverthelers, ur ed its Division Engineers to expedite the work on the satellitus still more.

This tertucually developed process of expansion represented the reals of the construction of new installations for the Second Air Acres during

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the war veriel. Some additional construction of the existin faces was, however, remained become of additional requirements. On 5 loverbor 10/2 the Directorie of Pice Services notified the Second Air Force that the reasonable of construction of AAR establishments would have to be brought to op and and that after 1 Pecember 1942 new projects would have to 1 clared with the Ver Production Roard. 39 General Clds replied that while it was actuated to bring war-time con fruction to on end, he did not believe it could be doce until the end of the wor. Be, nevertheless, ashed only for ellitional housing for 1200 persons at Success, Fyote, El Less, Clovis, all Alemanordo so that they could expand training during 1/ 0 In January 19/3, in response to an AAF query the minter routle. regarding facilities needed in the tarering off of construction as a part of the saturation of air rower program, General Clip recommended that nime of the catellite fields be built up to group station levels so that they could be used by groups being preserved for overgens revenents. These projects were recommended to the Chief of Engineers in January 161 1973.

Durine 1942 and 1973 the new stations were built and the older bucks were expanded to next their operational requirements, securingly with a maximum of difficulties. To General Club, who anxieusly avoited the comrletter of such reaject, almost emerything secred to conspire to hold up the building effort. In Fourier 1943 be protented that commy regulations is a been written around the emerything of scouts 1 as then '40,000 that, to his browledge, not a single remy had been no e available to the life order for the uncount such channels. Informatics when also venations. Formed (his theorem), for example, that his projects are conclusive related

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to overseas movements as to deserve the AA-2 priorities given to projects directly connected with such rovements. The Directorate of Lage Services, however, exclained that the continental AAN activities desired approximately 40 per cent of their projects urped on one pretence or another and 163 that it could not break up the priority system which had been established. In a long survery of deficiencies requiring correction by the AAF written on 19 November, General Olds formally protested again about the amount of tire which he had discovered to be lost "due to the time element involved in the transmission of rapers through various agencies of the Army Air Forces and the Mar Department." He charged that such transmissions between the Directorate of Pase Services and the Office of the Chief Engineer required four trips requiring 4 to 6 days each or an average time lag of 20 days. Euch difficulty had also been encountered from green lumber which promptly shrank and had to be replaced. Delays had been encountered because of shortages of materials while concentration camps for aliens and prisoners of war had been completely finished. Two renths later Drigodier General E. L. Eubank, Director of Eombardment, rointed out that when all land acquisition papers were properly accorpanied with the necessary information from the field only one trip between the Directorate of Pase Services and the Office of Chief of Engineers was required. The time interval for transmitting the papers through regular message center channels (it was impractical to use a c wrier for each of the 2,000 pieces of correspondence maching between the two offices each week) was only one day. As for the use of green lumber, for more than a year there had not been enough seasoned lumber in the country to construct a single project. The highest possible priority had been assigned to the Second Air Force



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rmojects, or i the high st priority of all by been assigned by the Iresident to detention comps--a situation oper which the ALF had no con-164 trol.

Describe all of these delays the initial take construction program of the Secold Air Rence was ruched to completion in a magnably short time. - Cortembor 10/7 isht bases (Beiver, Gowen, Davis-Conthun, Balla Walla, El Isro, foreira, Verlover, and Erbrita) wire in use for heavy bomber 165 All of the installations had 54- and 24-group program origins, but Wendover and Ephrita h d been borbing and gunnery range fields until the bounder of the Courses and Wondover, then Its first heavy bomber 166 group arrived in April 19/2, had loss then a dozen buildings for housing. Conditions were similarly crude at Erhrata in June 19/2 then it: first During 1942 and 1943 both baces received repr prrived for training. conterments and improved landing fields. In fetcher 1942 four more bases 17 f. (Huchlo, Sioux City, Marid City, and Alaromordo) became operational. The first three of the leves hed been conceived during the 24-group program; Alarogordo, again, was a former bombing and gummery range station. Construction of bestardment group housing had begun in Subruary 1922, the landing field facilities were completed on 16 June, and by December 1942 next of the construction at the hape was correlate. In November and December 19/2 the four bases--Focatello, Coarer, Salina, and Great Falls-which the Second Air Force had recursted built on 3 April 1942 come into 170 Work on Snoly "ill Army Air Mace at Salina had actually P.11 operation. becaus on 5 May and all major construction on the first projects was comelete on 15 December 1962, but completion of the over-sized 10,000-foot Construction began at Icentello on 22 May, runway tool concubat long r.

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its housing was complete on 15 Cotober, and on 1 Noverber it received its first heavy borbardment group.¹⁷² Work began at Great Falls on 9 May and the base was entirely courlete on 28 Februry 1943; on 30 November the first heavy group to train there arrived. The runways, heavy r, had been constructed Juring the fall of 1942 during very cold weather, frozen aggregates had gone into the embandment fills, and the runways began to bettle and develop deformities with the spring thews of 1972. These runways had to be repaired, but the Second Air Force continued to use the field until 16 Cotober 1973 when it turned the field over to the Air cryice Corrond. The air base at Casper seems to have performed satisfactorily although the Second Air Force entertained ammehensions that it could not be oper-174

During the winner, spring, and early summer of 10/3 the other bases 175 being built for the Second Air Force came into operation. Constructional problems on all but three of the static speem to have been minor, but the three catellite fields of Great Falls-Cuthank, Glasgow, and Lewiston-encountered the same runnay failures in April 10/3 that had plagued the rain base. Since the estimated cost of remain to the four stations was 19,650,000, the Second Air Force used the satellite fields for five months 176 and then abandoned them.

The completion of this levelorment program is ried the end of the Second Air Force's construction of new airfields. Thereafter the air force obtained new facilities by trading with other continental AAF a encies for fields in excess of their needs. On 12 December 1977, for example, the air base at blythe, Colif., wis taken over from the I Treop Caerier Compand,

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and a beauxy lockerd out more which hid hier on ely beaut by bod weather 177 if University and reveal there to be thus lits or latered training. In Jeans ry 10/2 the Second Mir Recentalso becaut to exclude the air support field of Alexandria, La., for heavy be ber overwater flight training, and univer the one scath it occured the dirfield at Galveston, lex., for the called the one of the dirfield at Galveston, lex., for the called the dirfield at Galveston, lex., for overnice fractions and Anti-ultrariae controls at Galveston, line, for overwhich mines a Anti-ultrariae controls at Galveston, line, for overwhich mines a Anti-ultrariae controls at Galveston, line, for overwhich mines a Anti-ultrariae controls at Galveston, line, for overwhich mines a Anti-ultrariae control of Galveston fields at Unihert, Tex., a d by relars, Tern., for heavy berbardment fit training. During Exy 10/3 the headapartons of the air force were noved from fort George initiated by the conthe-sturied chift in the air force's area of responsi-17. billy.

Le Timl Mr Free, ultimielt to - charged with all CHE and ATH functions for a dium, light, and dive be bardment units and WL for fighter aviation, a colleled the expansion of the Jecond Air Force. For a number of response, hereway, its construction problems were here cerious. In Janmany 1977 the Third Air Force had 10 static - as i used, next of which were aviatible for its training m. ds. It also hid a most curber of CAA intravel civil airfiel - within its operational acts which were fairly well aviated to the use of medium and 11 dat aircraft.

Degrife its contuctly designed training row, how vir, the Third Mir Science first operatic all training was to be given to beam to hardrent shourd. Findler General Follott tradley of the TD Lenber General proroud on M January 172 that the two beams be bardrent groups remaining in his contributed by used for operational training. Noch of them would

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require an established base where it and its off-syring group could train for six weeks, an outlying field for transition flying, and a third airfield to which the off-spring group could be cent for an additional six weeks of inderendent training. This rlan was arroved by the Air Force Combat Com and on 2 February, and the Third Air Force accordingly established two CIU's--the first (P-24) at Earksdale and the second (P-17) at DecDill. For the n e of the DecDill ON the Third Air Force secured the use of GAA improved fields at Tampa (Villstorourh-Henlerson County Airfield) and st Strasotr, Fig. To transitional flying field was found for the larkedale, CTU, but the CAA improved municipal airport at Fort 'yers, Fla., These fields received thetical was secured as its unit training field. use when they were still little more than improved runways. At Serasota the heavy group sent to the field for final training on 1 April found unfinished asrhalt running (which seen deteriorated under the use of the hervy bethers) and a tent correspondence. A formal lease for the field was not lare Field at Fort Yyers was los ed on recotinted until 1 July 19/2. 182 19 February and the first I-24 group a rived from Earlaide on 31 'arch. The first group to train at Fort Fyend, how ver, was soriged of its flight echelon to reinforce the 'idle Best and had to 'e corritted to unit training aroun. In order to save the group out of the Field, the Third Air Force secured a losse on another Florids CAA-improved field at Lakeland and transferred the group there on 17 Lay. Fraining of heavy groups was not long continued by the Third Air Force, for on 11 June 19/2 the Aar chifted all such traiting to the Second Air Force.

I the core outhority that took anguitte heavy horboris int training, the Third Air Force was node a succeible for all medium, light, ad live



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Transmont transmon. Towards at 1 is a sected on 27 second ry to notime of train the point mours, but for of the set had caused rostnon-ment of it ("" mat' Jun . Ilms i the aborted out flong the lines of the in dia. The which move of the rest for the reaching of the new more, five and of the visit training unser the total each a casent man, give and of mult terrining at a primily airdrent. Mach Chi the all the state is not inty field for the sitical fight restion. these county is a other of the the Text store limits dimension Colordian, J. J., Alle on emilling 1 and at Correspond S. C., he should be faired find to the embers, J. C.; a "-25 (FI at surisable pairs Taken Field as its sumilies and terring shall at star custon its mill in inits field; B. A F-21 P. A control of Fill Borouth-Contensor Genty Almost as Its writt of all imaging as its wit too mor field. Later Dorasota recurst neutrable for -20 or cation and the field at Inteland was taken into it according a prioritule. The realize of process, that involved the us of the realisty-the ainfield of alterboro. The CAA is out Fight me les el on to gril, es a construction rearrant was outsk-By Laron. Sum the 1-25 for an Erer Columbia newed there on S bound, howwe, to fight was in root share. One runway allost is addededy such in the set of , four nor buildings collar and, and there was only one w ter tap on the vicit. I reptrices, the medium come completed its training The ton releasing.

Denomenantly with and dentined to replace the medium border CTU reason, it. Third his force conducted contrateness or dTH training. Fast on this training was conducted by the CT is through the simple device of training one air cours with each new hold unit, but in order to increase

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the productive conscitu still more, the Tried Air Scree estimated a redium Forter "I to function of the new air late of Disenville, S. C., on a This Si used the CAA improved runicipal airforlist 1.27July 19/2. Anderson, S. G., and Coronan Field, a CAA immedual field at immedd, 1.72 In July 19/2 the Clust or trangrette re-S. C., for transition flying. placed by an JU of ick remained in orientich until Telesony 1975. After trainer four student mours, the 1-25 CTU at Golurits was converted into on all in Journy 1943 and remain d in operation wat I 1945. ANC HER 1-26 STE was activated in July 1942 at the Dill pro Leansh and to Jant Types in the followir stanth. In Pocember 3610 is wes spain transforred to the rew field that has been built on the laws last benting pers. It revelied to AcDini in Lote on 19/2, the elit remained with the Deniewing ronth then it was transform 1 to Take Classer, Is., to finish cut the wir.

Som the most wert bla very oright 11 dim a dive here a dist C T and aff memory, un estated in the TTI Air subject Denority more and emission facility over the other mighted, which were built un for air current use. The others of much training model the error models of formation, supervision, and unit training models for addue beright down preserve. One light hands all (TH operated at the Field free dame to somet 1977 and trained a stateat neur in all three theory of the part is down the light berkendment (TH functioned at Hill as and Field free ing to deather light berkendment (TH functioned at Hill as and Field free ing to deather 10/3, conding its off-opering groups to In's Charles, Definider, Mechand, (Fig., Ardrene, Oklas, and 'ushores, Orlas, Twis I I was coved to corris Field, Charlotte, 1. G., in towerty a 1973 to finish cut the more main aff. In August 1/3 a second (TH areap was not un at Florence, S. C., at the airfield which had been acquired from the I Treep Gravity Generard. A dive

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NUT BERGE PATTO TO TO bombardment OTU was operated at Key Field from August to fotober 1942, giving all three phases of training to its one student group there. A second dive bombardment CTU operated at Hunter Field, Savannah, Ga., from July 1942 to January 1943, sending two student groups to train at 'ayoross, Ga., and one to DeRidder. With the redesignation of all dive hombardment units as fighter borber units on 15 August 1943 the two dive bombardment CTU's were converted into fighter bother CTU's and placed under the II Fighter Command. The OTU at Key Field subsequently sent two groups to unit training at Congaree, S. C., and one to 'rew Field. The OTU at Hunter moved to Drew in February 1943 and subsequently sent two student The new stations involved groups to Valterboro and one to lakeland. in this training effort were thus those at Waycross, Ga., Ardnore, Woodward, ard Muskogee, Okla., and at Congarer, S. C. All but the first of these had been improved in the air support field developmental program. The Maycross field had been built by the CAA, and in June 1942 the Corps of Engineers had begun the construction of runway extensions and theater of operations housing. The first dive bombardment group to train there

The Third Air Force initially established two fighter OTU's, but on 2 errived in August 1942. May 1942 it was relieved of the regronsibility for such operational training and directed to train fighter pilot replacements instead. Two fighter replacement training centers were implemented in June 1942 at Morris Field and at Dale Mabry Field. Eccause of the unfavorable weather at Charlotte the FRIC was noved to Drew Field in August. The FRIC at Drew subsequently acquired additional squadron stations and sub-bases at Sarasota and Finellas, Fla. In January 1943 the FRTC functions were moved from

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Drew to Sarasota and a new sub-base was acquired at Funta Gorda, Fla. By May 1943 the center also had sub-bases at Bartow, Fort Myers, and Hillsborough, The Fale Mabry FATC used sub-bases at Thomasville, Ga., 194 Harris Nech, Ga., and at Ferry, Fla. Facilities at Venice, Fla., formerly used by the Air Service Command, were taken over for fighter squadrons in June 1943 in a further extension of the Sarasota FRTC operations. Most of these new stations were CAA improved municipal airfields for which the Third Air Force had secured the construction of theater of operations housing in its final statement of needs under the saturation of air power 196 developmental program.

The Third Air Force also conducted reconnaissance replacement training successively at Will Rogers Field, William Horthern Field at Tullahoma, Tenn., and finally at Key Field, but these training activities utilized only existing facilities.¹⁹⁷ In March 1943 the Third Air Force took over the photographic reconnaissance CTU which had been operating at Peterson Field, Colorado Springs, Colo., under the direct control of the Director of Fhotography since April 1942.¹⁹⁸ It also operated an Aircraft Warning Unit Training Center at Drew Field.¹⁹⁹ It operated a general replacement depot at Daniel Field, Augusta, Ga., during 1942, and at temporary facilities in Plant Fark in Tampa after February 1943.²⁰⁰ During 1942 the Third Air Force gave cold veather operational training at Alpina, Oscoda, Grayling, and Saginav (Tri-City Airport), Mich. In addition to these main facilities the Third Air Force, like other AAF units, used a number of civil fields at which there were few if any military improvements for auxiliary flying training fields.

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The smallest of the AAF organizations dealing in operational and replacement training was the I Troop Carrier Command, an organization established on 30 April 1942 to train corbat troop carrier groups and wings for airborne operations.²⁰¹ According to the plan for training developed during April 1942, the I Troop Carrier Corrand was to consist of a headquarters, 3 wings, 12 groups, and 48 squadrons. During the training period it would need 12 airfields, one of which was to serve its headquarters, four to be used for joint air-ground training, and three to be used for prelimi-202 nary troop carrier flying training.

The worb of selecting stations for troop carrier training actually had been undertaken in the general gir support base development program. On 20 February 1942 the Chief of the Air Corps had been directed to appoint a board of officers to select a site for an advanced glider school, and this board apparently recommended a site between Laurinburg and Maxton, N. C.^{.03} The Directorate of Ground-Air Support, taking cognizance in planning of the needs for troop carrier training by July 1942 had secured the inspection of sites at Florence, S. C., and Billy Mitchell Field at Milwaukee, Wisc. Noting that site inspections were being undertaken at Alliance, Feb., Ardmore, Okla, Blythe, Calif., and Sedalia, Ko., the Directorate of Ground-Air Support on 2 July 1942 directed the I Troop Carrier Command to finish the site selection by designating a board to inspect any additional stations which might be needed.

With most of the preliminaries thus accomplished, I Troop Carrier Command encountered few difficulties in locating its activities on these and other air support stations which were either ready for use or were being built. A tract of land adjacent to Stout Field, the Indianapolis,

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Ind., municipal airport, had been leased on 7 April and in June 1942 the cantorment constructed there received the headquarters of the command.²⁰⁵ Preliminary military transition training had to be given to civil airlines pilots being indoctrinated and the I Troop Carrier Command utilized Stout Field, Billy Mitchell Field, Kellogg Field, and Camp Williams Airfield (Camp Douglas), Wisc., for this purpose.²⁰⁶ As new and more suitable facilities become available, these fields were given up (Camp Williams and Billy Mitchell Fields were given up in September 1942), and by December 1942 all transition flying training was centered at Bergstrom Field, Austin, Tex.²⁰⁷ This field's site had originally been leased for the construction of an observation base, but since the field could not accommodate more than 15 C-47's in its traffic pattern, four nearby municipal fields were leased for landing practice until tw additional parallel runways could be finished at Bergstrom in July 1943.²⁰⁸

The troop carrier operational training program made use of most of the facilities originally projected for the use of I Troop Carrier Command. As has been seen, however, the airfields at Elythe, Galif., and Ardmore, Ckla., were transferred to the Second and Third Air Forces. The airfield at Florence, S. C., was used for troop carrier training from 30 June 1940 to 5 March 1943, at which time it also was transferred to the Third Air Force. To accomplish the bulk of its operational training the I Troop Carrier Command was thus left with eight airfields. Three of these (Bowman, Laweon, and Fope) were prewar airfields. One-Camp MacKall, N. C.--was a ground forces post and airfield utilized by sufferance. The remainder had been built for the command. Laurinburg-Maxton had been built as an over-all field between 20 June and 31 October 1942, and it became operational in the

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A CARLES CONTRACTOR AH3-69, Chap. IV following month. The airfield at Sedalia, Mo., was ready for use in September 1942. Alliance became operational in December 1942. The last of the fields to core into use was at Grenada, Miss., which (although tuilt as an air support base) became a troop carrier RTU in June 1943 and 211 was closed in March 1944. Few difficulties were encountered in the occupation and utilization of these fields, and by February 1943 the I Troop Carrier Command could report that it required no additional facilities to complete its part of the 273 group saturation program. One additional AAF function was concerned with the OTU process during

a vart of 1942. This was the short-lived I Concentration Command which was established on 19 June 1942 to process and expedite the movement of MAF tactical units (later modified to include only the air echelons of such units) to the overseas theaters of operations. On 15 November 1942 the command was ordered to disband, and its work was given to the air forces which were training units for export. During the course of its short and troubled career the command used eight assigned airfields, located chiefly in the Middle West, and other fields (Dow, Grenier, and Westover) borrowed from the First Air Force. On 8 J ly it was assigned operational control (the bases were administered by the Air Service Command) of Selfridge, Baer, Syracuse, Kellorg Field, and Lockbourne, none of which the command found suitable for its mission. Syracuse, for example, was still in process of construction and would not have runways as soon as needed. Paer was a pursuit field and its runways were too limited in dimensions and had too many hazards for staging the B-26 units which the cormand wanted to put there. Kellogg Field was short in housing capacity.

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Selfridge, a fighter base, also needed additional runways. These defects were taken care of with new construction projects. In addition to these old bases, the I Concentration Command secured the assignment of leased facilities at Lunken Field, Cincinnati, Ohio, to serve its headquarters which were moved to that city in July 1942. The command also took over respon-. sibility for the completion of the airfield at Dyersburg, Tenn., which had been suspended in June 1942. During August it sponsored co: struction directives for completing facilities at the field for two heavy bombardment groups, projects which were to be completed in February 1943. At the Ford plant's field at Willow Run the command secured construction 213 projects for runway extensions and for housing a heavy bombardment group. At the conclusion of its period of activity the I Concentration Command

bases were divided among other AAF agencies. Selfridge and Kellogg Fields were transferred to the Third Air Force, Baer went to the I Troop Carrier Command for use in staging, Dyersburg went to the Second Air Force, Lockbourne subsequently was used for four-engine transition training by the Southeast Training Center, the housing at Willow Run was used by a Technical Training Command school detachment, and Syracuse remained in use 214 by the Air Service Command.

Air Support Airfields. Having received the responsibility for training and reorganizing the observation and reconnaissance squadrons of the Army in the fall of 1941, the AAF gradually succeeded in bringing some order into the confused organizational air support problem during 1942. At the same time the Air Support Section of the Air Force Combat Command, which became the AAF Directorate of Ground-Air Support with the inactivation of the Combat Command, erected and secured the development of a system

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of airfields designed to serve air support units training with the ground forces.

On 10 December 1941 the Chief of Staff approved a study projecting the needs for new observation equadrons and groups (together with new air base and materiel squadrons desired to service them) to be required by the expansion of the Army ground forces during 1942 and 1943. From this authority, together with the information on the location of the new ground posts, the Air Support Section drew up a comprehensive requirement for air support fields to be needed during 1942 and 1943.

This projection assumed that extensive base development would be needed adjacent to the four Army headquarters at New York, Memphis, San Antonio, and San Francisco, and adjacent to the command post of the Armored Force at Fort fnox. Each Army corps headquarters was also to have an adjacent base. Fach division post was to have a smaller base, depending in size on the rate of one observation squadror to be located near each division. Additional requirements were specified for the Desert Force maneuver area which was to be centered at Indio, Calif. Finally, the program required AAF glider and troop carrier stations at laurinburg-Maxton, A part of these needed airfields existed 216 Sedalia, Ardmore, and Allierce. from pre-Fearl Farbor construction and merely required expansion to meet the needs of the heavier aircraft being assigned to observation units. Other stations would have to be provided -- preferably, as the Directorate of Ease Services informed the Chief of Engineers in April 1942, from exist-217 ing airfields or fields being improved by the CAA.

Actually, however, the program was somewhat unrealistic in presuming a static situation whereby air support aviation would work closely with

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armies, corps, and divisions much as it had prior to 1941. The construction of special air support bases near each army and near the ermored force headquarters seemingly presumed that the five air support command headquarters would be located at them. Actually, the air support commands did not achieve such a close relationship with the ground force headquarters. During the surmer of 1942, moreover, the V Air Support Command was deactivated, and the four remaining commands (ultimately redesignated as the I, II, and III Tactical Air Divisions and the III Tactical Air Corrand in 1944) were 218 moved about to follow by Army maneuvers and training. The air base facilities for air support units near New York and San Francisco were shared with other AAF functions at existing bases. At Memphis, however, leases were negotiated and construction was begun on housing for 176 officers and 1,700 enlisted men. On 16 April 1942 the Directorate of Air Support reduced the planned garrison there and shared the facilities with the Air 219 Alamo Field (San Antonio Municipal Airfield No. 2) Transport Command. Was leased for air support units supporting the Third Army and the division at Camp Swift, but no such extensive garrison as had been contemplated 220 was provided.

Only a part of the bases designed to occupy a position proximate to Army corps headquarters (excluding those posts which also served divisions) seem to have been built. Most of these airfields were soon diverted to other uses. Stout Field at Indianapolis, first leased as a base adjacent to a corps headquarters, passed to the I Troop Carrier Cormand when the corps headouarters was located in Chicago. Newcastle Airport at Wilmington, Del., was leased in anticipation of it serving units supporting a corps,

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but the size of the air suprort garrison was cut down in order to share the field with the ATC which moved in on 29 May 1942. Hillsgrove Airport (Green Field) at Frovidence, R. I., projected to support an unspecified corps, was developed by the I Fighter Command with little if any view to air support use. The air base at Salem, Ore., also projected by the air support base development program to support an unspecified corps, became a Fou th Air Force defense base instead.

The remainder of the projected program was accomplished much as had been planned. The existing division-supporting fields were changed to meet new requirements. The field at Jacksonville, Fla., inherited by the AAF as the supporting base for Camp Blanding, was turned to other uses and a new air sur ort base built at the municipal airport at Gainesville, Fla. (Alachua Army Airfield), with an advance field at Keystone Heights, Fla., near Camp Blanding. According to plan the AAF troops at Detrick Field, Frederick, Md., were moved out by 8 September 1942 and the installation was turred over to the ground forces. Sherwood Field at Faso Robles, Calif., taken over in the mobilization of the Faticnal Guard observation squadron there, was transferred to the Navy in the fall of 1942. The construction of an airfield near Fort McClellan, Ala., was finally abandoned in June 1942 and arrangements were made to use the airfield at Birmingham, Ala., instead. The other existing air support bases were built up, an activity which ran into some inevitable conflicts with the local ground forces post commanders. At Gray Field, Fort Lewis, Mash., for example, plans for the expansion of the airfield conflicted with ground forces plans to expand the Army post. After much friction and some recriminaticn which went so far as to suggest that the AAF was attempting to take

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over the whole post, a local adjustment was worked out. The AAF, however, was never successful in securing autonomy for its local commanders of air-226 fields on Army posts. Nor did the AAF succeed in a second attempt to get a board of officers to make definite boundaries at each of the fields located on an Army post.^{*227}

In the Desert Center maneuver area the AAF built up airdromes at Blythe, Desert Center, Rice, Shavers Summit, and Thermal, Calif. Blythe, as has been seen, was turned over to the Second Air Force for bombardment training. The other fields were transferred with the IV Air Support Command and its units to the Desert Training Center on 21 January 1943. The command, the units, and the airfields remained assigned to the center until they were released and assigned to the Third Air Force on 28 November 1943.

*During 1942 and 1943 new air support fields were either built or leased which, when added to the pre-Pearl Harbor air suprort fields, completed the following Army post--airfield situation: Camp Edwards, Mass. (Ctis Field, Falmouth, Mass.); Fort Devens, Mass. (Fort Devens Army Airfield, Ayer, Mass.); Indiantown Gap Military Reservation, Pa. (New Cumberland and Reading Army Airfields); Fort Dix, N. J. (Fort Dix Army Airfield); Fort Bragg, N. C. (Pope Field); Camp Pickett, Va. (Blackstone Army Airfield, Blackstone, Va.); Camp Butner, N. C. (Raleigh-Durham Army Airfield, N. C.); Camp Blanding, Fla. (Alachua Army Airfield, Gainesville, Fla., and Keystone Heights Army Airfield, Fla.); Camp Gordo, S. C. (Aiken Army Airfield, Aiken, S. C.); Camp Atterbury, Ind. (Camp Atterbury Army Airfield); Camp Ereckenridge, Ky. (Camp Breckenridge Army Airfield); Fort Custer, Mich. (Kellogg Field, Battle Creek, Mich.); Camp Gruber, Okla. (Muskogee Army Airfield, Okla.): Fort Riley, Kans. (Marshall Field); Camp Howze, Tex. (Gainesville Army Airfield, Gainesville, Tex.); Camp J. T. Robinson, Ar'. (Adams Field, Little Rock, Ark.); Fort Leonard Wood, Mo. (Vichy Army A'rfield, Mo.); Camp Carson, Colo. (Feterson Field, Colorado Springs, Colo); Camp Maxey, Tex. (Legion Field, Paris, Tex.); Camp Swift, Tex. (Alamo Army Airfield, San Antonio, Tex.); Camp Hood, Tex. (Killeen Field, Temple, Tex,); Fort McClellan, Ala. (Reilly Field and Birmingham Army Airfield); Camp Rucker, Ala. (Ozark Army Airfield, Ozark, Ala.); Camp Forrest, Tenn. (William Northern Army Airfield, Tullahoma, Tenn.); Camp McCain, Miss. (Grenada Army Airfield, Miss.); Camp Shelby, Miss. (Laurel Army Airfield and Hattiesburg Army Airfield, Miss.); Fort Sill, Okla. (Post Field); Camp Davis, N. C. (Camp Davis Army Airfield); Camp Barkley, Tex. (Abilene Army Airfield, Abilene, Tex.); Fort Bliss, Tex. (Biggs Field); Fort Huachua, Ariz. (Hereford Army

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Nost of these airfields were municipal fields, many of which had been improved by the CAA. The housing facilities at them varied according to the prominence and use of the fields. Esler Field, one of the largest of the fields used solely for air support, could accommodate 200 officers and 2,200 enlisted men in July 1944 while Rice Army Airfield, one of the smallest of the air support fields, had housing for only 20 officers and 230 By September 1945 Esler had cost a total of \$3,680,972, 100 enlisted men. Rice only \$700,884. Most of the fields were organized and administered as sub-bases of larger AAF bases in their vicinity. Most of the fields were passed to the cortrol of the Third Air Force in January and December 1943 when that air force received the responsibility for all of the air support commands. Throughout the war they served units engaged in maneuvering with the ground forces, units such as tow target squadrons which were training with antiaircraft regiments, and other units engaged in similar functions.

Facilities for Air Service, Maintenance, and Air Transport. The impact of World Mar II upon the supply, maintenance, and air transport functions

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^{*(}Continued from page 138) Airfield, Ariz.); Fort Ord, Calif. (Salinas Army Airfield, Calif.); Camp Beale, Calif. (Earysville Army Airfield, Calif.); Camp San Luis Chispo, Calif. (Estrella Army Airfield, Paso Robles, Calif.); Camp Mair, Cre. (Corvallis Army Airfield, Ore.); Camp White, Cre. (Medford Army Airfield, Cre.); Fort Lewis, Mash. (Gray Field); Fort Jackson, S. C. (Congaree Army Airfield, S. C.); Fort Benning, Ga. (Lawson Field); Pine Camp Military Reservation, I. Y. (Wheeler-Sack Field); Camp Campbell, Tenn. (Camp Campbell Army Airfield); Camp Cooke, Calif. (Santa Maria Army Airfield); Camp Hulen, Tex. (Palacios Army Airfield, Tex.); Camp Folk, La. (DeRidder Army Airfield, La.); Camp Claiborne and Camp Beauregard, La. (Ester Field and Alexandria Army Airfield); and Fort Knox, Ky. (Godman Field). (AAF, Station List, 1 Dec. 1942; AAF, Air Ground Support Sect., Air Support Ease Requirements, 1942-1943.)

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of the AAF caused the same tremendous expansion of base facilities as was the case in the training and defense functions. It also brought about the redefinition and clarification of the mission which resulted in the creation of three new commands: Air Service, Materiel, and Air Transport. Each of the commands, however, had been represented as somewhat interconnected agencies prior to Pearl Harbor. A provisional Air Corps Naintenance Command had been established under the Materiel Division, OCAC, on 15 March 1941. It was elevated from a provisional status on 30 June and on 17 October had been established as the Air Service Command. On 11 December 1941 the ASC was removed from the control of the Materiel Division, OCAC.²³² The remainder of the Materiel Division was redesignated as the AAF Materiel Command on 22 April 1942.²³³

The Materiel Command, largely a testing and procurement authority, needed fewer facilities than did the Air Service Command which stored, overhauled, and repaired AAF aircraft and equipment. The headquarters facilities of the Materiel Command at Wright Field, however, were expanded by such ingenious means as the conversion of auto parking sheds into offices, the maximum use of hall space, and the adoption of three rotating eight hour shifts. Offices were also rented in Dayton and 711,271 additional 234 square feet of floor space were constructed during 1942. During 1943 approximately 140 buildings and major building additions were completed, including two large administration buildings, 21 civilian war housing buildings, new laboratories, and additional military barracks.²³⁵ By September 1945 Wright Field, having received construction valued at \$48,817,078 since June 1940, was the most expensive of all AAF command facilities.

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During 1942 the Materiel Command, crowded at Wright Field, secured the use 236 of the Clinton County Airport at Wilmingtor, Chio, for testing gliders. Unly one set of field installations was constructed for the Materiel Command: the modification centers which served to fit the mass production aircraft models to the needs of the specific theaters of operations. A total of 21 of these centers was activated during 1942, eight being operated by commercial airlines and the remainder by aircraft manufacturers. Nineteen of the centers remained in operation at the end of the year after two other centers had been closed out.^{*237}

The Air Service Command--charged with maintenance, repair, and storage of AAF aircraft and coulpment and the training of air depot roups and other curvice personnel--developed a much larger network of base facilities. Desrite bad weather, constant shortages of critical materials, and the necessity of changing construction plans to meet these conditions, the ll air depots either in construction or in operation at the time of Fearl Varbor were expanded to meet new requirements. Each of the maintenance lood could be borne by working around the clock, but storage and maintenance facilities nevertheless had to be augmented. During 1942 new depot surply warehouses increased the storage space available from about 4,000,000 to 7,736,535 square feet, and by August 1944 depot storage provided

*Dargett, Calif.; Tucsor, Ariz.; Love Field, Dallas, Tex.; Fairfax Airrort, Kansas City, Kans.; Buffalo, N. Y.; Evansville, Ind.; Niaga ?? Falls, N. Y.; Offutt Field, Omaha, Neb.; Standiford Field, Louisville, Fy.; Cheyen e, Wyo.; Vandalia, Chio; St. Paul, Minn.; Denver, Colo.; Birmingham, Ala.; Memphis, Ten .; Tulsa, Okla.; and Kansas City, Mo.

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approximately 24,000,000 square feet of covered warehousing. Maintenance structures costing 573,525,566 were completed between January 1942 and June 1944. By 1943 all of the air denots (except Middletown which had two runways the longer of which was 4,900 feet) had three runuays varying in length from 4,500 to 7,800 feet. Between January 1942 and June 1944 housing costing \$21,390,016 and post utilities and miscellaneous structures costing more than \$93,000,000 were built at the air depots. Approximately \$5,000,000 was spent for the purchase of additional land at the depots. The largest of the area increases, however, occurred at the San Antonio Air Depot in January 1943 when it took over Kelly Field and consolidated it with its own Duncan Field under the name of Kelly.

These cost figures included the extenses incurred in building one new air depot at Miami, Fla. In February 1942 the ASC had estimated that it would require four new derots.²³⁹ These derots--planned for location near Fhoenix, Ariz., Miami, Fla., Wichita, Kans, and Omaha, Neb.--seem to have been considered necescary to support the five old depots which were within 250 miles of the coasts and which might come under enemy attack. Funds for these depots were set up in the budget estimates for 1943 and possible sites were inspected, but the stringent regulations established for the control of critical materials made it evident that such construction would be impractical. On 8 December 1942 the ASC again asked for three new engine repair depots to be located at Omaha, Miami, and Fhoenix. This request was disarproved by the VAF on the groups would be overseas and the flying training on the wane before the depots could be built. The Air Staff, however, was willing to authorize one new depot which would repair

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2,000 engines and furnish 1,000,000 square feet of storage.²⁴⁰ After much indecision as to the exact location of this depot, the Air Staff finally authorized its construction at the 36th Street Airport, Miami, Fla., on 5 January 10/3. The runway system on the municipal airport was accordingly purchased, and construction which was directed on 2 February was completed within 10 months--more than a year less than had been needed for the older air depots. The cost of this depot was included in the costs noted in the costs noted in the costs noted of the expansion of the air depots.²⁴¹

The augmented derot storage facilities were still insufficient to store the mounting stock of aircraft and material delivered to the ASC. To meet this problem the command leased as much commercial storage space as could be secured and sponsored the construction of specialized storage depots. By August 1944 the ASC held warehousing containing approximately 62,000,000 square feet of which slightly more than two-thirds was government owned. Leased storage included over 400 separate properties, rented for an estimated cost of \$4,000,000 a year.

The ASC also used a number of air bases for training its service personnel and air depot group, for storage, and to meet maintenance requirements in certain areas. These airfields, however, had been developed originally by other AAF agencies and had been inherited by the ASC. Beginning in December 1943, as will be seen in the following chapter, all airfields placed on a stand-by status were assigned to the ASC.

During 1941 and 1942 the ferrying and air transport functions of the AAF, which had been variously accomplished but had usually been the work of the Materiel Division, OCAC, were concentrated in the Air Corps Ferrying Cormand. Because of the nature of its mission--as well as the fact

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that the command was first regarded as a temporary expedient--the Ferrying Command initially made heavy use of bases controlled by other AAF agencies and developed few fields of its own, but as the burdens of transport and related training increased the command--redesignated as the Air Transport Command on 20 June 1942--secured active control of a number of the older airfields and developed some new fields to meet its own needs.

The basic reason for the establishment of the Air Corps Ferrying Command on 29 May 1941 was, first, to erect a responsible agency for ferrying aircraft destined for the British from the factories to transfer points on the borders of the United States, and, second, to provide a military agency to begin the transport of mail and key personnel overseas. Neither of these functions required extensive facilities, and the Ferrying Command was authorized only to call on AAF agencies for assistance and to use Lend-Lease funds for absolutely needed developments. For ferrying the command nee 'ed detachments along its flight routes and fields suitable to serve as transfer points; it also needed some bases suitable as installation points where special equipment could be installed on the planes to be flown across the Atlantic. During July and August control officers were sent to the aircraft factories on the Pacific coast, and on 21 June an installation point was opened at Patterson Field. By the end of July, however, this installation point had been moved to facilities at the Wayne 245 County Airrort, Romulus, Mich., which was rented with lend-lease funds. Another installation point was set up at the Nashville, Tenn., municipal airfield in September, and by December 1941 other control offices had been set up at the 36th Street Airport, Miami, Fla.; Savannah, Ga.; Floyd Bennett Field, New York City; West Falm Beach, Fla.; Hensley Field, Dallas,

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Tex.; Bolling Field; and at other scattered points. Additional installation and transfer points were needed for aircraft which were to travel the North Atlantic route to Britain; consequently early in August 1941 the Mar Deportment secured deeds to the municipal airfields at Presque Isle and Houlton, 246 Maine, and began their development for military use with lend-lease funds. Difficulties with fog at Long Feach caused the sommand to initiate improvements at the Falm Springs, Calif., municipal airport in September 1941. Since the Ferrying Command was unwilling to take over the materiel squadrons established to service it at Bolling, Long Beach, Romulus, FresQue Isle, Foulton, and Miami in the fall of 1941, the Maintenance Command (forerunner of the ASC) undertook the obligation on 8 October 1941.

With the beginning of the participation of the United States in World War II, the Ferrying Command took on a more permanent aspect. On 30 December it was reorganized to include two subordinate divisions--the Demestic Division and the Foreign Division. With the arroval of its manning table in January 1942 the command became a legitimete AAF organization, and it subrequently notivated wings and forrying squadrons. On 3 February it took over the control of the material squadrons serving it. The broadening responsitilities of the command led to its redesignation of 20 June 1742 as the Air Transport Command, with overseas wings and a domestic Ferrying Division. The headquarters of the ATC were soon moved to more spacious quarters in the AAF Annex at Gravelly Foint, Va., adjacent to the 'Jashington Pational Airport, and the headquarters of the Ferrying Division were moved to accommodations riven up by the Air Force Concentration Cor and at Cincinnati, Chio, opening there on 9 February 1943.²⁴⁹

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These expanding responsibilities led to the out-right acquisition of more base facilities. Morrison Field at West Falm Brach, Fla., was formally taken over from the Third Air Force in June 1942. Falm Springs was occupied early in April. Because of interference from defense activites at Boeing Field, Seattle, Wash., as wellwas the need for opening an interior air route to Alaska, the ATC activities at Boeing Field were moved to Gore Field, Great Falls, Mont., on 22 June. In September the ATC moved from Hensley Field, where its activities had been precsed for space, to Love Field at Dallas. Two other airfields which had been designed as air support bases at Wilmington, Del., and Memphis, Tenn., were occupied in May and November 1942. The necessities of training also required the occupation of additional bases. Farly in July 1942 a trans-ocean training unit was opened at Posecrans Field, St. Joseph, Mo., and a similar unit was opened at Homestend Field, 28 miles southeast of Miami. An Arctic training school at Camp Williams, Wisc., became operational in December. Feginning early in July 1942 housing was built at Camp Luna, M. Mex., the former summer encampment area of the New Mexico National Guard, and a 250 training school for enlisted technicians was opened. During 1943 a few more bases were acquired. The Fairfield-Suisun, Calif., airfield, originally built as a redium bomber base for the Fourth Air Force, was tak n over and activated as a station of the ATC's Facific Wing in May 1943. Because of the pressing need for C-46 crews in the India-China Wing, the ATC activated a third training unit at the Reno Army Air Base in June. It also operated a replacement center at Alpina, Mich., and then at Billy 251 Nitchell Field, Milwaukee, Wisc.

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In addition to these bases the ATC secured operational righ s at other bases along its ferry and transmort rootes. Early in June 1942 the Perrying Corrand asked for minor improvements at a number of fields on it: rootes only to be required to use servicing facilities at existing bases. This policy, however, was served the relevant when the cormand showed that it was impossible to use Array bases in all cases because of coefficies with the training programs of other AAF agencies.²⁵² Although the ATC seems to have had trouble in securing these operational rights early in 1942, the problem lessened when the initial rush of AAF operations began to taker off in the fall of 1942. By 27 February 1973, for example, the ATC stated that it did not believe that it would have any substantial need for not construction.²⁵³

Tactical Experimentation and Training Facilities. At its establishment on 19 bay 19/1 the Air Corps Froving Ground received the entire Eglin Field reconvation which had been recored for the use of the gunnery school of the Contheast Training Center. This gunnery school was continued in operation, but the old composite group which had been reved from Maxwell to Orlendo in 1940 was transferred to Eglin and redesignated as the Froving Ground Detachment on 1 July 1941. In September the Air Corps Foard, which had been relatively inactive at Maxwell, was roved to Eglin. As a part of the AAF reorganization during the spring of 1942, the Froving Ground was finally given com and status on 1 April 1942. As a command and as a detachment, the Froving Ground was required to test AiF equipment and material for tactical suitability. In pursuance of this mission the action and had by 1945 tuilt up both the main base at Eglin and had secured

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the construction of 10 auxiliary airfields on the reservation, each devoted to a particular phase of testing operations. The reservation had been increased in size to 429,758 acres, most of which was owned by the covernment. The cost for both land acquisition and construction had been 255 approximately *23,000,000.

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In central Florida the Fighter Corn and School and its successor, the School of Applied Tactics, built up a more ambiticus training and testing area. School activities in this region had originated on 29 March 1922 when the Mir Defense Operational Training Unit was activated under the orders of III Interceptor Com and for the purjose of training personnel in the techniques of controlled interception. This CTU, redesignated as the Interceptor Cormand School on 30 March 1947, was assigned the main air bace at Crlando, Fla., and airfields which were to be located at Leesburg, Crystal River, Dunnellon, Zephyrhills, Erooksville, and the Fillsborough-Penderson County Airport at Tampa. Fields at Missimmee and Vontbrook, Fla., were later made available in place of Crystal River and the airport at Tampa. A secondary field being built under the CAA near Orlando, later called linecastle Army Air Fase, was subsequently assigned to the school. All of these new fields except Brooksville and Montbrook hed be n improved by the CAA. The Third Air Force also designated an area in central Flori a over which the Interceptor Corrand School was to maintain a model air defense region, complete with rodar stations, search light installations, and fighter airdrom s. The academic plant of the school was located in the local fairgrounds at Crlando. On 28 May 1942 the school, redesignated as the Fighter Corrand School, was placed directly under the AAF. During its eight months of existence it was able to use

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only Criendo Air Date for flying, but during the summer and fall of 1942 housing was built at the other fields and their runways were being improved. By 26 September searchlight units were billeted at Winter Gorden, Fustis, and Umatilla--all towns in central Florida--and Signal Corps units were dispersed at so e 12 redar stations in the region.

During the surver of 1942 discu sions were held an no the AAF directoretes regarding the necessity for reopening some new tactical school to replace the old Air Corps Tactical School which had been closed at l'axwell Field in June 1940. After some uncertainty as to the location of this school the AAF Dir ctor of "anagement Control finally decided on 25 September that with core expansion the facilities of the Fighter Core and School would be suitable for the purpose. A board of officers quickly located a new school area immediately north of Crlando Air Face for the new headquarters and academic installation, and on 27 Cotober 1942 the AAF School of Applied Tactics was established at Crlando. By 1 March 1943 the new academic area was ready for occupation. The School of Applied Factics encompassed four departments-Air Defense, Air Support, Bembardment, ard Air Service-wach of which was assigned combined training and testing missions for their respective type perconnel and material. The Air Defense Department, successor to the Fighter Conrand School, was assigned control of (rlando Air Base and the airfields at Kissimmee, Leesburg, Zepbyrhills, and Cross City, Fla. The last field was another CAA improved airport which at Bushnell, Fla., was built by an engineer battalion as a training evercise and was subsequently oper-ted as a collect-type fighter airdrone. Additional searchlight cantonments were established by the department at the towns of Apopka and Clernort. The Air Support Department

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received control of the two air support fields which had been built near Camp Blanding-Alachua Army Airfield at Gainesville and Keystone Heights Army Airfield---and the airfield at Dunnellon. The fields at Dunnellon and Keystone Heights were provided with over-all landing areas for glider operations during 1943.²⁵⁹ The airfields at Erooksville, Montbrook, and Finecostle were assigned to the Bombordment Department, and, although originally designed for fighters, they were expanded to suit them for heavy bombordment aircreft during 1943. Finecastle, for example, was given a 10,000-foot runwey.²⁶⁰ The Air Service Department functioned both as a school organization and as the service organization for all of the units assigned to the school. It established a combat-simulated service center at Leesburg, Fla., en Ordnence depot at Goths, Fla., and a Quartermester $\frac{261}{261}$

<u>Bombing and Gunnery Ranges</u>. During 1942 and 1943 the AAF continued to encounter the same difficulties in locating bombin; and summery ranges which had been met prior to Fearl Harbor. In the eastern United States the high price of land made large recorvations virtually impossible to obtain and only small precision bombing and air to ground gunnery ranges could be obtained. Air to air gunnery ranges had to be located over water areas. In the watern United States, where large tracts of public domain were available, the AAF nevertheless continued to find that there were few areas, however barren, in which someone did not have a vorted interest. Despite the difficulties the AAF scouired between Fearl Harbor and June 1943 approximately 12,500,000 acres of land--an area larger in size than the combined acresse of New Hampshire and Verment.²⁶² By June 1943 the

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minimum size tract for precision bombing ranges had been set at 2 x 2 miles, for air to ground gunnery ranges at 4 x 6 miles, and for-air-to air gunnery ranges at 20 x 40 miles. The size of the areas was dictated by the necessity for cafety. The precision bombing range area of four square miles, for example, allowed a safety ares of one square mile, a not excertive area since boths might be dropped from 20,000 feet. The 20 x 40mile size of the air-to-air gunnery ranges was necessitated by the fact that planes, flying at four niles per minute, fired .50-caliber projectives which world carr II miles at 20,000 feet altitude. The AAF allocated precision borbing range to stations on a basis of one range to 25 crews in training, air-to-ground ronges on the basis of one to each training base, and the air-to-air ran es on the basis of special need. In locating the ranges it was note manlatory that the least productive available land he use, that public facilities he relocated as little as possible, and that the range he approved by the Interdepartmental Air Traffic Control ian as could not be within 12 miles of a base; precision bombing Roard. ranges and air-to-ground ranges, however, h d to be within 75 miles of the using base while sir-to-air gurnery ranges had to be within 250 miles of the using air base. 264

The range needs of the First and Fourth Air Forces, concerned as they were with fighter training during 1942 and 1943, were fairly eacily supplied. The First Air Force developed a 14,677-acre reservation near Millville, Y. J., as a fighter gunnery range and got it into operation late in 1942.²⁶⁵ The Fourth Air Force controlling both the Euroc range and a part of the Torogeh range, seeringly had ample facilities for bombing and gunnery training.

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The Second Air Force, however, encountered more than its share of troubles in acquiring ranged to cerve its muchrosming heavy berbardment training program. "Every rat that's been dug ... has been complaining as soon as we get a range," protested one Second Air Force officer. Strong opposition was encountered in Oregon and Idaho from stockmen, but eventually the air force secured two ranges in each state which could be used during a part of the year and grazed in the inactive veriods. At Albuquerque delay was encountered in securing permission to homb on state-owned land wich was scattered throughout the public domain. During 1943 the problems continued. At Blythe, Calif., the Second Air Force heavy borberdment group was prevented from bombing by the ubiquitous activities of the Desert Training Center, and not until December was there a delimitation by which Blythe was allocated four part-time ranges in the desert. In June 1943 the AAF secured arrroval for the ecquisition of 65 additional precision bombing ranges, 27 air-to-ground gunnery renges, and four airto-air gunnery ranges, most of which were for the Second Air Force. In September 19/3 the air force was allotted eight additional precision borbing ranges and one additional air-to-ground gurrery range then its training increased. Although three ranges were obtained for the Second Air Force, the fact that some 25 checks requiring action by 4 different agencies had to be met before any request colld be rade for land acquisition made the process time concuring. As inte as September 1943 Irigedier General Newton Longfellow, a Second Air Force wing corrander, stated flatly that the Second Air Force gunnery training program, because of a lack of ranges, was "merely eyowash."

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The Third Air Force seems to have extended its ranges without so much difficulty. By Fovember 19/3 'thed the seneral bombing ranges at Avon Fark, Fla. (218,905 acres) and at Nyrtle Peach, S. C. (with a combination of 'and and water ranges covering come 223,147 acres). Other significant ranges were the Fanceck County, Miss., range with 30,622 acres (a sub-base of Yey Field), and the Great Salt Flains Bombing Range at Cherokee, Ckla., with 31,177 acres (a sub-base of Will Rogers Field). Other water ranges were maintained over the Gulf of Mexico for air-to-air gunnery. Thiri Air Force air support fields, when other facilities were lacking, used neighboring ground forces ranges. Godman Field and Camp Atterbury Army Airfield, for example, were provided an air-to-ground gunnery runge and a 273 rattern bombing range on the Camp Atterbury artillery range.

The training and experimental commands also expended their ranges. The bombandier school of Eirtland Field, by way of illustration, had a total of 29 precision betbing ranges by Cetober 1945. The other bombardier cohole at Dering, Roswell, Victorville, Tig Springs, Childress, Nidland, Sun Angelo, and Carlsbud eventually obtained from 15 to 24 precision bombing ranges each. Tentative plans associate i early in 1942 hal contemplated the establishment of one general bombing range for each three bombardier schools, complete with elaborate targets simulating Europea objectives, but this plan had been impractical to execute.²⁷⁵ The patienty schools necessarily had larger ranges. By Cotober 1945 Las Vegas, Laceder, and (ingman hed land ranges covering 2,305,200, 623,293, and 161,997 acres of land respectively. Tyndall and Yarlingen had combinations of lard and water ranges, while Euclingham used a 960,000-acre water range over the Sulf of Exico. Py 1945 the Fabagoria Island ranges occupied

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50,825 acres, while the Matagorda Feninsula ranges included a land area of 29,230 acres and an overwater area of 704,000 acres. The Ajo-Gila Fend Ranges, used by Luke and Williams Fields, occupied 1,123,135 acres. Madar bombing training activities at Boca Raton used island targets cleared for use by permits from the British and Bahamas governments, and Boca Raton also was the only AAF activity to have bombing ranges off the cast coast of Florida in the Favy sphere of authority. The Froving Ground Command at Eqlin Field had 53 land and water ranges within the Choctawhatchee reservation, on nearby Santa Rosa Island, and over the Gulf.

Nost of the Forbing ranges were little-improved tracts of barren land with simply marked targets. Targets usually consisted of co centric circles marked on the ground, some of which could be lighted at night by 277 flores or electric lights. Ecmb hits were generally scored by triangulation from observation towers scattered about the reservation. Other targets were more elaborate. Kirtland's ranges had a simulated battleship, a bridge, run erplacements, and an oil refinery. The larger ranges had so e airfield facilities. During 1942, for example, the Second Air Force secured flight strips at Boardman, Cre., and Sahuarita, Ariz., to serve the Boardman (Arlington) and the Davis-Yonthan ranges. The Third Air Force built two landing strips at the Great Salt Flains range. The 280 Vest Coast Training Center built fields at Ajo and Gila Eend. The expence of each range naturally varied with the locality and the extent of it development. The cost of 11 sites for precision hombing ranges submitted by the bonbardier school at Midland, Tex., in January 1942 may perhaps he indicative of such costs where the lands were rented. This

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development cost ~120,900, an amount which covered land rents (ranging from 10 to 75 cents per acre with 10 cents the prevailing rate), fences (*500 per mile), fire guards (*500 per mile), and access roads (*300 each).²²¹ By September 1945 Midland's 23 ranges comprised 34,799 acres, rented at an annual cost of ~1*,601, and had received *30?,210 worth of construction.

During the summer of 1943 the ANF made a final determination of the range meeds of its evencies. These estimated requirements were approved by the Assistant 3 cretary of War for Air on 29 June. In September 1943, as has been noted, the Second Air Force vas allotted a few admitional ranges, but the AAF atternted to hold its arencies to their estimated needs. After Cetober 1943 all range requirements had to be submitted to the Office of the Assistant Secretary of War for Air for approval before 283 any real estate could be procured for such purcoses.

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Chapter V

CC. SOLIDATIC" AND DISFOSITICE OF PACILICIES, 1943-1945

turing the surrer and fall of 1943 the ANF reached the peak of its training and operations in the continental United States. In April it had a maximum strength of 1,202,324 persons at denectic installations. In Sectember it had the largest demestic housing carecity-housing for 2,401,540 persons. In October it had the largest number of contrat groups (143) in the continental United States. In November the great at number of flying codets (100,322) were in training. In December it reached a peak total of 773 separate air installations (345 main baces, 116 sub-baced, and 322 auxiliary fields) within the United States. Since it was evidently pasting its peak of operations in the United States, the AAF sought during 1943-1945 to take measures both to curtail all now construction and to release such surplus properties as were no longer needed for the war effort.

1. Curtailment of Construction

The vast bulk of AAF war-time construction, as has been seen, was finally promarmed late in 1942 in order to get it ready for the read of operations during 1943 and in order to escape any delays which might result from place to impose more stringent regulations for the conservation of critical constructional materials. Thus in January 1943 General Arnold, after returning from an inspection trip which covered most of the United States, felt able to direct that all new projects would be curtailed and that "com anders must work together and utilize the facilities that have been constructed."²

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ARMY AIR FORCES INSTALLATIONS

í r

15 JULY 1944

LEGEND

- O AAF INSTALLATIONS WITH FLYING FIELD FACILITIES
- □ AAF INSTALLATIONS WITHOUT FLYING FIELD FACILITIES
- Ø FLIGHT STRIP
- X SEARCHLIGHT STATION
- ➡ AAF INSTALLATIONS TEMPORARILY TRANSFERRED OR RELEASED.
- AAF INSTALLATIONS PERMANENTLY TRANSFERRED OR DISBANDED

COLLEGE TRAINING DETACHMENTS AND WAR SERVICE TRAINING DETACHMENTS ARE NOT SHOWN ON THESE MAPS

KEY TO ABBREVIATIONS

I AF - FIRST AIR FORCE	AAB - ARMY AIR BASE
2 AF - SECOND AIR FORCE	AAF - ARMY AIR FIELD
3 AF - THIRD AIR FORCE	AF - AIRFIELD
4AF - FOURTH AIR FORCE	AP - AIRPORT
C G - COMMANDING GENERAL AAF	AWS - AINCRAFT WARNING STATION
ASC - AIR SERVICE COMMAND	BR - BOMBING RANGE
ATC - AIR TRANSPORT COMMAND	HAGR ROMBING & GUNNERY RANGE
TGC - AAF TROOP GARRIER COMMAND	CH CRASH ROAT STATION
TAC - AAF TACTICAL CENTER	CSA CIVILIAN SCHOOL AREA
PGC - PROVING GROUND COMMAND	EN FLIGHT STRIP
MC - MATERIEL COMMAND	NAS NOVAL AIR STATION
EFTC - EASTERN FLYING TRAINING COMMAND	PER FORT OF EMBARKATION
ETTO - EASTERN TECHNIGAL TRAINING COMMAND	1.H H FLASE
CFTC - CENTRAL FLYING TRAINING COMMAND	SHOTE THE CIALIZED STORAGE
WETC - WESTERN FLYING TRAINING COMMAND	CHE ONTRACT PILOT SCHOOL
WTTC - WESTERN TECHNICAL TRAINING COMMAND	TTD TE H TRAINING DETACHMENT
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The War Department was also working to reduce new construction projects. On 2 April 1943 it noted that, despite the fact that all major construction had been completed, there had been no appreciable decrease in the number of small projects which were being requested, a fact which was delaying the var effort. On 15 April it colled attention to its "Spartan simplicity" directive of 1 June 1942 and reiterated the idea that critical shortness made the "greatest economy" necessary. The AAF backed up this memo with the instructional precept that "Facilities which are desirable but are not essential must be eliminated from consideration."4 In August 1943 the G-3 Division, UDGS, stated as a general principle that no rore land would be purchased for the Army unless failure to acquire it would so impede "training in a given area as to make retention of land already rurchesed questionable."⁵ After 31 December 1943 the authority of division engineers to approve new construction projects costing up to 40,000 'ithout reference to the OCE was revoked.6

Despite these directives the volume of Army construction during 1943 remained high and did not decline as rapidly as was desirable. During that calendar year the total construction cormand authorized for the AAF amounted to more than that for the Army Ground Forces and the Army Service Forces together. General Arnold, displeased both with this disparity and the fact that AAF construction was not declining in volume by month in proportion to that of the AFF and ASF, ordered on 14 January 1944 that all future construction in the AAF would be limited to that required "to meet critical requirements developing from changing operational needs for which existing facilities ... are completely inadequate."⁷ Ne premised the Army

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Service Forces, moreover, that while channes in operational requirements of aircraft would necessitate some additional work all such projects would be subject to "rigorous review."

The effects of General Arnold's displeasure at the continuing volume of construction requests w re soon manifest in more stringent regulations. After 14 February 19/4 all requests for new construction and for the acquisition of additional real estate had to be signed by the corranding general of the air force or con and making the request. Cn 27 February General Arnold specifically directed that, without exception, there would he no more AIF construction within the continental limits of the United States without his personal approval for each project. Despite the great arount of detail which this rolicy threw upon the headquarters of the AAF, 10 it was strictly interpreted and executed. In October the MAF announced t at thenceforth it could acquire no additional hotels. In November General Arnold instructed the "acoud Air Force that the war would have to be finished with the facilities which were at hand, that no new construction projects would be approved until all existing facilities had been fully utilized and all possibilities for improvisation exhausted, and that no new requests for construction would be submitted for stations "lacking reesonable prosrects" for selection as rost-war baces. These principles were restated as general policy for the whole AAF in May 1945.

The response of the continental air forces and commands to these orders for curtailed construction was immediate and seemingly sincere. Thus the Central Flying Training Command directed on 22 December 1943 that "the time has come to stor thinking in terms of additional facilities and to start thinking in terms of utilization of existing facilities."

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No new flying facilities could be expected unless made necessary by a change in the types of aircraft used in training. No new buildings could be built while other buildings were vacant.¹⁴ Even though General Clds initially protested against the curtailment of construction by stating that "a shortnee of raterials and equipment means not that construction must stop but that more materials and equipment must be produced," both he and his successors issued directives curtailing the initiation of new 15

The volume of AAT construction requests was reduced by these restrictive policies, but the flow of new projects was by no means completely dermed. In the fiscal year 1945, for example, AAF compand construction accounted for approximately (162,800,000 of the total Arry construction authorization of (.672,000,000. Host of this new construction was directly attributable to the changes in training responsibilities brought about by the emergence of the very heavy be bardment type aircraft. By the fall of 1943 it was evident that most of this new training would have to be done on Second Air Force fields which had been built up for heavy bomber training. This meant that the other continental air forces would have to take over a part of the heavy borber training. Accordingly new projects would have to be authorized to expand fields for both very heavy and for heavy borbardment training.

With the relaxation of their defensive requirements both the First and Fourth Air Forces were given expanded training missions. In September 1943 the First Air Force was required to operate six replacement training groups for fighters, and in October 1943 it was made responsible for operating four heavy bombordment replacement groups. These extansions

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were to make use of existing facilities, and in the case of the latter 17 pre-run the sir force the expressly forbidden to construct new facilities. It was nevertheless later necessary for the AAF to remain the expansion of Ecusing at Chatham Field, Cavennah, Ga., and at Charletto, C. C., for heavy to fordrent t dining. Ectween 19/7 and 1945 the Fourth Air Force expended its fighter training, began the training of jet fighter units, received the representibility for night fighter training, and was required to devote six stations to training heavy bonberdment crevs. Nost of the facilities were already on hand for the use of the expanded training activities, and three of the six heavy borber training installations (Malla Malla, Mountain None, and Govern) were obtained from the Second Air Force. Some additional housing was permitted at Fourth Air Force stations, but the AAF was by no means generous. In August 1943, for exarple, the Deputy Chief of Air Staff approved an expenditure of C1,000,000 to expand housing at Ellensburg, Mash., for fighter training, but he informed the Sourth Air Force that General Arnold would authorize no additional training or operational facilities in the Forthwest. During 1943 and 1944, as a part of the program to give each air force a more balanced training load, the Third Air Force received a heavy berbardment truining objective and the Second Air Force received fighter groups. Veither air force needed any special facility expansion for the accon-2] rlighment of the training.

Nuch of the new construction tuilt after 1943 was more closely connected with the needs for vory heavy bombardment training. The rost serious problem was to find fields for the E-29's which were to be used against

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Japan in large numbers. These aircraft needed 7000 x 150-foot runways with a load capacity of 120,000 younds. Runways 6000 feet lon- with a leaver load capacity, however, could be used for limited training. The F-32's had about the same characteristics as the P-20's, but the F-36 type aircraft (although it was obvious that they would probably not be in operational use during World War II) required runways with 200,000 yound gross load capacity.²² Housing and maintenance requirements for very heavy bentardment groups were obviously in excess of the facilities provided at nost AAF bases.

The Second Air Force, which mave up part of its heavy to herdment training monopoly in the fell of 1943, received initial responsibility for the preparation of P-29 units for contat. Following modest beginnings in the spring and surver of 1943, training was being conducted at Salina, Great Lend, Fratt, and Walker, Mans., and at Clovis, N. Mex., by the end of the year. The Corb County Airrort at Marietha, Jo., was expanded to serve the F-20's being turned cut by the asserbly plant there. Housing at Fratt, Great Fend, and Malver, originally designed as satellite fields for Stoky Will but which had been expended to accomposate heavy to-ber groups for staging, was found especially inadequate. At Fratt the housing nceled for B-20 units was about three times the tage's caracity, and ' During troops had to be quartered in symnasiums, hutments, and tents. 1944, however, bace facilities were expanded at Glovis, Fyote, El Frso, Great Fond, Fratt, Malker, Alanogordo, Davis-Monthan, Gread Island, Fairmont, Harvord, McGool, Dalhart, Sroky Hill, Hirtland, Gowen, Nountain Fore, and Focatello in order to fit them for B-29 training. 25 At first there was

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much encoders that the runneys designed for heavy bothers at those stations would not hold us under E-29 flying, but by the fall of 1944 experience showed that with much maintenance they could be expected to survive until the surrer of 1946.

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The AAF Training Corrand, which had to give transition flying training on -2° and 3-32 type aircraft, also neared to expand some of its airfields. At a conference in the Air Installations Division on 12 August 19/A, the capabilities of the Training Community fields for very heavy brochardment use were convested. There it was leaded that five bales would ultimately be required, one of which would be needed introductely. The conference decided that Norwell Field could best be expanded first, and by 26 August the Air Installations Division had prepared the recessary plane for extending the Nervell Field runways to 7000 feet.²⁷ In September three other fields—Lowry, Nandolph, and Roswell—were related for extending a lengthening of run ays, a wideolar of taxiwals, inerstored meintenness apron space, and a few additional hangers.²⁸ The fifth school—a transition school for F-32 pilots—was located at Fort Worth, but, since the field could meet very heavy heaterdness standards for limited operations, the base was authorized only an additional hanger.²⁹

The Third Air Force was first considered for B-32 unit training, and it prepared plans to expand Barksdale, Sulfport, MacDill, and Chatham Fields (the last of which was to be obtained from the First Air Force) for the purpose. Each was selected because few additional facilities would be required. By December 1944 the AAF had decided not to train E-32 units in the continental United States, and the Third Air Force was given the responsibility for operating four B-29 combat error stations.³⁰ In

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January 1945 construction projects were authorized to provide a 7000-foot runway at MacDill Field, to erlarge the parking aprons at MacDill, Barksdale, Gulfrort, and Chatham, and to build hangars at Earksdale, Gulfrort, and Chatham.³¹ By the end of June 1945 most of this construction was complete and training was in progress at all four of the stations.³²

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The Fourth Air Force participated is P-29 training only to a limited ortent. During 1947 a 6500-foot runway at Euroc had been extended to 7000 feet, and beginning in May 1945 the Fourth Air Force began to give training for lead crews for E-29 formations there. The end of the wir cut 33 short rore extensive plans for E-29 training in the Fourth Air Force.

The construction of runways suitable for B-36 aircraft was a ruch greater problem than was the providing of facilities for the E-29's and E-32's. These aircraft, as they were designed, would require a landing surface designed to take a 300,000 round gross Joad. No design criteria existed for such loading and the problem was further complicated by the fact that all aviation engineering designs for runveys had been based on modifications of standard highway designs which had never contemplated a 300,000 pound lording. An experimental runway was authorized to be built at Nuroc, Calif., in May 1944, but in July General Arrold ordered the project abandoned when a survey of soil characteristics showed that costs would be excessive. In August planners from the Air Installations Division and the Materiel Command agreed that a new runway could best be built at the Fort North Arry Airfield, adjacent to the plant in which the first E-36 was being built. The Materiel Con and agreed to request the project, which could be built with industrial funds available to the occrand. The 300,000-round caracity runway was first planned to be 7300 feet long
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and 20° foot wide with 75-foot stabilized shoulders and with a connected operating apron 150 x 1200 feet. The cost of this project was estimated at "2,250,000.³⁶ The designed length of the runway had been extended to 2200 feet by the time that the project was submitted for approval in February 1975. After more conferences as to the design, work was finally corrected in June 1945. By this time it had been decided to build the experimental runway 300 feet wide and to delete the shoulders. The project was not completed until August 1946.³⁷

The beginning of the employment of very heavy betherdment aircraft from the "arianes are inst Jaran demanded a build-up of AIF facilities on the Encific coast for surriv and transmertation. During 1944 the AAF secured the construction of a ^10,000,000 intransit depot at Alameda, Calif., for specific overseas shipments.³⁸ Nother Field, "amilton Field, and Fairfield-Suisun Army Airfield were expanded for ATC transfort and ferrying employment.³⁹ The pround forces rost at Camp Fohler, Secremento, Calif., was taken over for an overseas replacement depot.⁴⁰ Mills Field at Can Francisco was improved in a joint Army-CAA development program which was designed to provide extra air facilities in the Can Francisco area to most the peak load of redeployment of air units to the Facific.⁴¹

Some additional construction was partitled in order to bring other miscellaneous installations up to anticipated operational conditions. At Camp Springs, "d., a project for developing Andrews Field as the headquesters of the Continental Air Foxes was projected in September 1944, and by April 1945 the Chief of Engineers had allocated \$10,000,000 for the construction of administrative buildings, officers' quarters, utilities, a new 3,000-foot runway designed to stand 120,000-pound loads, and other

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airfield extansion.⁴² Efforts were also mole to turchase leased land at fields which seered certain to be part in the nont-wer air force. Followint the frecision to keep the installations at Grando occuried by the AAF fictical Center, the Chief of Engineers was requested to accurate in fec all of the land being used for its gunnery names at linearstle only the AAF find needed for the excansion of the headquarters root near Grando. The storage space utilized by the Air Convice Coursed and its successor, the Air Fechnical Service Contend, continued to increase alls of the war. By Aurust 1945 the AAF cocuried 87,241,000 equare feet of storage of which 14,013,000 square feet was leased.

The AAF also took over a number of enders movel forces static. Maring 1974 and 1945 in order to rest staticitized reads. Fort Theres, My., became an AAF a real accordance hospital. Tooks a it formilied laurdry and other convices to forth and Freed Army Minfields, Fort D. A. auccell, Tox., had to be taken over ther the mourt forces declared it excess. Camp Davis, 1. G., was secure, by then for for the force of which on entineer battaliers in January 1945, but it was released to the form forces in Aurust 1945. These facilities, Forever, required to not construction to mit then for AAF mends.

2. Discosition of Expert Parilities

At the same time that the sur Department and the MR were pairing offerte to curtail all new construction, both were surface to all one of their ercens facilities--a task which in many ways was and troubless of them had been their original acquisition. In Department 1943 the Mar Der strent, predicative its necessity on the fact that residual shorts and der pied

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that excess stations be closed or transforred to cove other war or civilian amoncy which could make better use of them, stated its policy in regard to the disposition of surplus Army installations. The AIF, AGF, and AST were directed to submit data on their surplus stations to the "obilization Division, ASF, which in turn would circularize all agencies of the Mar and Yavy Departments and other governmental functions to determine if they could be used. It was to make recommendations for final disposition or transfer to the G-3 Division, UDMS, which was charged with making disposition of the facilities.45 Early in January 1944 additional instructions were issued making the Chief of Engineers responsible through his division engineers (later changed to district engineers) for canceling surplus leaseholds when not more than a \$50,000 annual rental was involved. All surplus installations were also to be transferred to the Chief of Engineers for lease or cale. Approval of the Commanding General, ASF, acting for the Under Secretary of War, would be necessary for sales or cancellations of leaseholds renting for rore than (50,000 annually. After the creation of the Surplus Mar Froperty Administration early in 1944, the final disposition of surplus installations by sale was allotted to that agency.

While these policies were being worked out, the AAF had already begun to dispose of its surplus facilities--rarticularly its excess leaseholds. During the late scring of 1943 the flying and technical training schools had begun to pass their peak training loads and were showing surplus facilities. First to be cut back in the ensuing contraction were the civil mechanics schools, and (despite strong protests from the Aeronautical Chamber of Commerce) during Eay and June 1943 most of the contracts with

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these schools were canceled. The consolidation of the independent Flying Training and Technical Training Commands into one AAF Training Command, with headquarters at Fort Worth, Tex., on 7 July 1943 resulted in a reduction of leased headquarters facilities. During the summer of 1943 and the carly part of 1944 the training activities gave up most of their leased hotels. By the end of July 1943 all of the basic training functions had been moved from St. Petersburg, Fla.; Atlantic City was evacuated completely by training activities by January 1944; and nost of the training functions had been reved out of Miami by the spring of 1944. Fotels in Detroit and Chicago were similarly evacuated. The newly created AAF Foreconnel Distribution Command, however, continued to occupy a part of the hotels which had been leased in St. Petersburg, Atlantic City, and Miami.

In evacuating these hotels the AAF ran into a considerable amount of criticism. So many complaints were heard that the Senate war investigating committee visited l'iami in January 1944 to determine the source of the difficulties. It reported that the AAF had shown poor policy in not having taken the hotels originally through condemnation proceedings. Instead, the Corps of Engineers, acting for the AAF, had negotiated directly with the hotel owners and had worked cut contracts which had not been completely fair to the owners. Each contract, for example, had contained a provision giving the government a right to terminate it on thirty days' notice; yet the rate of rent had been fixed on a lower than annual rental rate. Damage settlements with the hotel owners whose hotels were being given up were somewhat unfair. In come instances the Corps of Engineers had cought to hold owners' claims down by invoking fair wear and tear

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clauses in the contracts or by threatening to exercise the government's right to restore the hotels if the owners would not agree to take a cash settlement. The condities report also criticized the fact that some of the hotels had been kept only a short time, a manifestation of too many changes of mind. The Stevens Hotel, for example, had been kept but 13 months and hotels in Detroit had been taken over and given up in less time. ⁴⁹ The report, however, did not show that the government had lost roney through the jealous efforts of the AAF and the Corps of Engineers to conserve funds, even if their economy had been achieved at the expense of the citizens who owned the hotels.

The AAF had also begun the rather uncertain work of disposing of its surplus cirfields and corges even prior to the announcement of War Department rolicy on the subject. In fatcher 1943 the Navy had asked for any surplus Army airfields located near enough to the coasts to be of use for carrier pilot training. The AAF almost immediately gave up its facilities of Mt. Versen, Arlington, Shelton, and Quillayute, all navel air Stations in the state of Mashington. To expedite the exchange of information on ercess facilities, an Army-Navy Facilities Cormittee was set up in February 19/4, and in March a list of 84 standby stations was furnished to the Navy for ressible transfer. In April Ctis and Trumbull Fields and other airfields at Hyannis, Mass., Port Angeles, Wash., Congaree, S. C., Fertsnouth, N. H., New Cumberland, Pa., and Westfield, Mass., were 52 transferred to the Navy. Later in the year it was given the airfields at Jacksonville, Fla. (where the AAF retained operational rights and some facilities), at Feystone Heights, Fla., at Fort Devens, Mass., and the training fields at Maco, Tex. (Blackland Army Airfield), and at Walnut

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Ridge, Ark.⁵³ Some additional AAF facilities for which there was no apparent use were given up completely. By 30 June 1945 it had turned a total of 79 air installations over to the ASF for final disposition.⁵⁴

Pesrite the obvious desire to be rid of its excess haves, the AAF was fairly slow in giving them up until the needs of rederloyment could be ancertained, needs which were by no means clearly determined as late as April 1945. The disposition of MAF facilities between 1943 and 1945, as well as the build-up of facilities during the first two years of the war, are shown in the following chart: ⁵⁶

STATUS CF	' AAF (1941	Chart : C'TINE	1 TAI FAC 1945	TUITES			
	7	31	31	31	31		157
	Dec	Pec	Dec	Dec	Dec	VE	A1
	19/1	19/1			10/1	D <u>y</u>	<u>Day</u>
Lain and Sub-bases	114	151	416	461	414	412	401 660
Auxiliary Fields	x	x	198	322	309	291	269
Contract Filot Schools	х	х	(9	66	14	14	6
Rented Office Space (3)	x	x	х	x	79	109	103
Hotels (A)	x	x	464	216	75	75	75
Forbing and Gunnery Ronge	s x	x	x	x	480	473	433
Civilian and Factory Scho		х	66	47	21	17	16
College Training Detachment	nts x	x	16	234	2	1	1
Specialized Depots (5)	x	x	12	41	63	51	43
Miscellaneous Installatio	ns 67	(1) 46	(2) 29	32	44	30	30
Total Installations (6)	181		1270		1506	1473	1377
Training Establishments	112	151	479	833	464	454	434
Grand Total (6)	293	348			1970	1927	1811
Notes: []] Forty-seven of	these	misce.	laneous	installa	iticns w	re alr	fields
respected or under constr	netio	(?)	Thirty-	three of	these n.	1256170	neous
ingtollations were sirfie	da m	niceter	t or und	er coestr	uction.	- (3) <i>i</i> i	er. Sires
and other small leaved in	istall'	ations	are net	included.	, (4) TI	his ite	m (r)

and other small leaded installations are not included. (47 into item includes hotels which were leaded, owned, or on a contractual basis. (5) Totals include sub-squeialized denots. (6) Items narked "x" are representative of missing information and consequently make the totals unrepresentative for comparison.

In general the AAF preferred to retain all of its airfields which had housing and third echelon maintenance facilities until the needs of rede-

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rloyment could be settled. Fost of its excess fields were the put a stardby status. On 9 December 1943 the Air Service Comund was made rearensible for receiving all of the excess fields and for maintaining then.⁵⁶ These standby stations were utilized for the war effort in any way consistent with their proper preservation for redeployment. The stations and their ranges were leased for grazing under arrangements made by the Corps of Engineers, always with the receivation that they could be repossessed by the AAF on 15 days notice. Frovision also had to be made by the lessor to keep animals and other appurtenances every from the run-60 Ways. Fouring at Walterboro, S. C., and at Seymour Johnston, Dale Mabry, and Tymtell Fields was made available for prisoner of war camps on a revccable basis. Billy Mitchel Field at Milwaukes, Misc., was transferred to the ASF until VE-Day plus 30 for housing Earbodian laborers and prisoners of usr. In general, the AAF did not favor any lease of its standby fields which permitted cultivation of the soil and consequent destruction of the rol. 53 The number of fields kept on a standty tasks world from nenth to menth, but on 1 September 1945 some 72 of the 401 main and subbase: and 74 of the 269 auxiliary fields of the AAF were being held on an inactive tesis. 64

No little unfeverable civilian comment resulted from the policy of keering some airfields on an inactive basis at the same time that the AAF was spending money to enlarge other bases. The Second Air Force, in moving its activites out of most of its South Darote staticts, raised corriderable rolitical or orition and questioning. It explained the decision to move out of South Darote and to keep Netraska bases with the justification that the latter bases had better transportation and were capier to control,

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but this did not suit the local citizens. Similar criticism was directed against the case air force for placing Scribner Army Airfield on a standby status while other airfields in the same state--Nebreaka--were being additionally developed. Fort of the critics were answered in the same ranner with an explanation that the curtailed activities of the AAF made it necessary that some bases be closed down while at the same time other bases had to be given additional improvements so that they would be suited for very heavy be bordnent training.

Meanwhile the AAF was making plans for the liquidation of the wast bulk of its installations after VJ-Day and for the retention of other stations for the postwar air force. By May 1944 a list of 61 stations for rermanent use was fairly firm, and the Chief of Engineers was asked to 68 make mying evaluation surveys to determine their fitness for retention. buch of the preliminary planning was done by the office of the AC/AS, MES, but the final arbiter of the stations to be retained was the Air Facilities Board. In the spring of 1945 questionnaires were cent out to the contards occurying those bases which were tentatively selected for the postwar air By 15 July 1945 a list of force requesting miscellanecus information. 125 stations for active service and 40 additional stations to be maintn'ned on standby status had been drawn up for the use of the interim air During August survey boards visited continentel staticus, checking operational factors, transportation, nearness to population centers, health, technical facilities, water supply, housing and mersing, medical Thus the ALF had facilities, and other such pertinent considerations. drawn up a body of information concerning the best of its stations which were desirable for the postwer air force, but the actual stations to be

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kept would depend upon the appropriations permitted following the end of World Mar II.

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Following the caritulation of Japan, surplus facilities were specially relinouished in accordance with the demobilization plans. On 26 Cetober alone 192 installations were reported as surplus to the ASF. ⁷² During December the last of the leased hotels at Mari were returned to their owners. by the end of the year the AAF held only 429 installations, including 273 main and sub-bases of which 106 were inactive and 156 auxiliary fields of which 65 were on a standby status. ⁷³ It was well on the way toward derobilization.

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Chapter VI

HISCEILANFAUS PROBLE'S OF AIR FACILITY DEVELOPITIT

At least three continuing problems were so interconnected with all of the phases of AAF base development as to warrant special consideration outside of the chronological nerrative of events which has been presented. These problems are: (1) a determination of the effect of political pressure on the selection and development of stations for the AAF, (2) an evaluation of the importance of the various controversies between the AAF and the Navy in regard to the acquisition and utilization of airfields, and (3) a consideration of the costs of construction for the AAF, which, because of the rapid transition from one building program to another, are not easily determined seconding to the phase treatment in the foregoing nerrative.

The first of these problems-political pressures on site selectionswas perhaps nore apparent than it was a real matter for concern. Local officials, real estate interest, chambers of comparent and other pressure proups always attended to secure Arry roots for their communities, but for the rost part these efforts undoubtedly conceled themselves by their very multiplicity. To some extent these advertizing activities furnished a velueble source of information on the advantages of sites which could be used by the AAF. Nearly every one of the AAF station histories presents an opening section covering the desires and efforts of local preceive groups to get an air base for their community. It was these efforts, in most instances, which resulted in a site beard visiting the community, but while these organized efforts may have exerted some influence on the site boards they were never determining factors in site selection.

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The Air Corps traditionelly fought arainst any effort of political interests to dictate the exact location of it: air bases. The Chi-f of the Air Corps objected to the original draft of the Wilcox Fill introduced on 17 January 1935 because it designated sites for the new frontier air detense bases too particularly. The resulting emendation which became the Wilcox Act made only a general designation of the strategic areas in which defensive bares and depots would be located. Eaving secured this legislation, the Air Corps maintained a constant alort to keep it as it was. In Arril 1938 it opposed a House bill processing to repeal the Wilcox Act, believing this effort to be sponsored by littsburg, Fr., political interests who wanted an air base there. On this occasion the CCAC urged that repeal of the basic act would jeopardize its authorization for new tare and "would likely create no end of correspondence, investigation, inspecticn and so forth, to satisfy all proposals for the establishment of air bases, regardless of importance of the area in which proposed." Again in Mar 1 1939 the "hir Department voiced the same disapproval of a bill service to repeal the Vilcox Act. During 1940 the OCAC successively disapproved of bills designed to permit the celection of three air bases on the Atlantic coast, to establish an air base at Vancouver, Wash., and to build an air base in Maine. The 1939 augmontation program, covered as it was by the comprehensive Wilcox Act, was free from all forms of logrolling and political pressures. It will also be remembered that General Arnold went to the unusual length of cautioning all Air Corrs base commanders not to try to secure any political agitation for projects of interest to them."

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Large scale expansion, connected with the avoved intentions of the Air Corps to utiline existing civil airfields as much as possible, gave more opportunities for rolitical manipulation during 1940 and 1941. The need for speed in locating stations for the 54-proup program, however, mide it necessary for the Air Corps to take alcost any sirport which had an accertable larding area and was willing to leave a building area. Site heards frankly sought to secure the best bargains which could be obtained from communities interested in getting an air lace, a business which, when conducted on such a large scale, was fraught with inevitable difficultics. In the first place there was no clear policy as to whether the heards should strive to secure "all they can get for nothing" or whether they should seek only a building site and an airport which could be lessed. Cre Air Corps officer on such a site board frankly stated that he did not believe "that an Arry officer should ... be placed in the position of being a kind of mendicant, seeking civilian as tobars in the guise of of conversion."

This practice of sceling local asciltance in the form of free land was of long standing and although it was cound in principle it scretimes resulted in the virtual sale of air installations to the high of bidder. The correitments by local inter sts formed a basis for proscure which should have been subordinated to tactical, training, and construction requirerents. The process introduced an element of competition between municipalities which resulted in bargeins which for local, financial, or other reasons could not be fulfilled. At Greenville, Miss., for example, the city cortified that a railroad spur would be constructed to the airfield site. This concession was laced on a gentler units arreement with the

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local railroad that it would build the spur, but when the railroad backed down, the city was able to furnish only the right-of-way. At Bangor, 'e., the city executed an airport lease providing that it would maintain the runways, but later for reasons which have been seen refused to do so. At East Tator Roure, Ia., the police jury obligated itself to remove high tension wires around the airfield, but later attempted to do this by putting pressure on the local utility company, so couring delay. Freshe, Calif., was unable to obtain the arount of land it promised to lease to the government at its airport, making it necessary to move the entire project to an alternate location. There were many other similar breaches of contract. These civil commitments were concequently not economical and additional construction costs were made necessary, thus nullifying many of the suproced advantages of placing Air Corps stations at aircorts which offered the most concessions. The whole theory, moreover, effected undue hardships on small communities which could not afford to bid for air baces.

Unite there is little evidence of direct Conversional pressure dictating the location of air baces, there are abundant manifestations of site boards being instructed to inspect sites at the instigation of a member of Congress. This, in itself, was nore helpful then burtful because it did call attention to many desirable sites. At times, how ver, it caused delays and waste effort when site boards were required to inspect manifestly unsatisfactory sites. In locating a local bereling range near Albuquerque, F. Max., for example, the COAC requested the MQ Air Force to rabe a report on one particular site "regardless of the nature of your recommendations, as this office is required to advice Center Carl Hatch

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of New Mexico who has interested himself in this proposal in behalf of a constituent."⁷ Again, a site board for the 54-group program was required to inspect a site at Roanoke, Va., although the terrain was unsuited and the only tactical group which could have gone there had been fairly well cormitted to Meridian, Miss.⁸ Strong and determined efforts seen to have been made by the CGAC to resist more dispensest political influence. Upon received a retainer of 01,000 to get an Army post at Laredo, McAllen, or Brownsville, Tex., the OCAC advised the contailer of the Gulf Coast Training Center that he would "carefully guard" his conversation and make no commitments until such had been approved by the CGAC.⁹ While two of the citics inter received AAF stations, there was such a tile delay as to negate a charge of any peculation.

The easing of the financial situation which began with the appropriations for the 84-group tactical stations seem to have been instructed to give weight to states which did not have air bases, there is absolutely no indication that political pressure dictated the location of any one of the new stations. While political considerations probably caused the Gulf Goast Training Center to nove a training stations projected for Vernon, Tex., across the river into southern Chlahoma, eventually locating it at Frederick, there seems to be little reason to believe that the station did not function just as well in southern Chlahom as it would hav done in north Texas. As the war progressed, the AAF was able to take an even bolder stard and to demand that there be no consideration of any factor in site selection which would delay the war effort.

In surmary, it seems evident that the main detrimental effect of

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political pressure was to aslay rite selection in a few indemes. Constant intervention into the process of site selection by colitical leaves on every level was troeblecore, but it is a vell-recognized part of the democratic propers. In most cares, recover, sendors and representatives, when they did able at to secure or sideration of the lead of intervent to their constituents, acted as lawyers seeking to recent the leat possible care for their clients, and in no save do they seem to have triad to dictate the considered of the decision. To the new toban, the the two the lead of the siles offered without undue approximent to any particular pressure group.

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The various controversies between the M2 well the May, in record to acquisition and utilization of the airfields and the air space of the mation caused a not inconsiderable arount of localized irritation, but from the viewoldt of the national war effort the problems never provel to be series. In the first place, the MAF and the Navy should a high decree of coor ration at most jointly utilized bacon. Are airfields at Jackson. Mar., Wilcone, Tex., a.el El Ingo, Tex., and elsewhere, were used to service name? sire aft as early as May 1942. Similarly, local arcoments were dram or early in 1942 per ditting the Air Corps to use the navel air stations at Arlinsto, Guillagute, Shelton, and Cak Cartor, Ush. Were the Corra of Englase as built facilities for single fighter squarens. In the second rives, the Interderectmental Air Traffic Control Found furnished a working rachinery for the adjustment of most of the Army-Navy facilities difficulties. But there were send local roints of discord which, given an energy attack on one of the coa frontiers so affected, might have been denserous to the continental defenses.

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Most of the points of irritation between the Arup and Mavy air services arose in Floride, an area with optimum flyers weather but with a limited air space. Difficulties first arose in western Florida where the control of all of the Chectawhatchee National Forest placed ANP activities at Eglin Field very close to the flying area of the noval air station at Tensacola, Fla. Air Corps officials at Eglin, desiring to exploit the whole of the recervation, wished to prevent Navy air operations eact of the western boundary of the Chostawiatches reservation, reighly the 87th noridion, but on 3 June 1941 a local agreement was loawn up restricting Air Corps operations to 86° 45' west longit de and permitting only operations under 1000 feat to 26° 50' west longitude. It was agreed that the two fields then under construction west of the first line of demarcation would be completed, but that no others would be begun. This agreement was rease able during the limited operation, preceding Feurl 'arter, but with the beginning of the wor it became a succe of discontent. At the care tire operational competition was beginning elowhere in Florida. For berbing and guncery training the CCAC had proposed to give the lavy unrestricted use of all off-shore areas along the east coast of Florida except a sector arrevainately 50 miles long between Ft. Fiacce and Foca Raton, recerved for the use of 'orcison Field. The Army proposed to assume an unlimited use of the west coast of the state. This proposition, tendered in March 1941, seems never to have been formalized, but it becaue the busis of a gentleman's arre ment between General Arnold and Ad tral Towers. In December 1941 the Pavy accordingly opposed Air Corps plane to eve ferring operation, from the 36th Street Airport to the International Airport at liemi. ^{1/} During the opring of 1942 loth carviess, probably unwittingly,

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abridged the Lerms of the expression. One AAP site selection heard alstabenly increated the CAA improved municipal airport at Vice Frach, and a Nav. board attounted to secure a lease on the Gainesville municipal sirfields which, according to AAP interpretation, came within the Carp Blanding air space repression.¹⁵

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To bring more order into the Florida situation, a joint conference lateran Army and Pary representatives evolved a north-could dividing line for the state running from Jasper to Everyledes. In the arreament, rublished on 19 September 1942, the Arry received control of the area lying which the dividing line except Reported and an area around Labe Tohorobulian which was received for a sea-plane type. To the end of the line the Navy would control all except the Camp Blanding area, Pobe Cound (a Signal Corps school), "erricon Field, Been Raton, Pementend, and Clauiston (on MAT rights school). The line of division between Eglin Field and Hencacola was drawn in at 86° 45' west Jergitude with no change to the existing greement.¹⁶

This, however, was no some them a working solution, and by Johnny 1943 the AIP had secured Navy permission to weightlich an air devot at the 36th Street Airport at Nami. In Detrony 1943 the Navy response the discussion of the boundary line when it proposed to open an amphibious including base on St. Andrews Pay, between the Proving Growni records on and Tyniall Field at Fanama City. To Brigadier General Growthices Surdner, con anding the Proving Growth Control, it secred that his records have not the way that Rockwell and Luke Fields had gone-the Navy, presease-17 Ire from both sills, would finally take it all over. The outcore of the discussement was a conference held in Mashington on 70 December 1943. Here

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it was decided to have the dividing line as it was, but to per it lead activities to note howevery agreements controvating the basic division for periods not in excess of 90 days. The representations of the Arry and Pary at this confirmed to reach as a board subject to call when local a memories could not be satisfactorily worked out.¹⁸ Furly in Telesary 1977 this a represent was approximate as Tarry policy.¹⁹

In the Facific coast the Sourth Air Force encountered much the serie difficulty, but with "ese successful colutions to the problems. Furing the years of pares each amongy on the wast const had rale their plans for meeting a wor encremency without coordination. The recult, revealed ofter Hearl Forbor, was the both the Arry and Navy had counted on using rany of the came civilian fields. In the Can Disgo are a only five fields ware available for define in 1942. (al, lindbarg field with an Arry instal-Inticu, and it can uncuited because of its lighted and or the persence of buccure balleons. The Tr Flebter Con and accordingly as and for joint construct with the Powy at Frank Filld, Cto. Mara, and Francey Mara, In r dition to the one squairen facilities which had be non-de evaluable at coincell Field, New Yory replied that the three fields were period exclusivily for testning or lind to near for sight fighter sputters telesging to the Arry. Since no lead arrement was fortheening, the nulter way referred to the Interdepartmental Air - ffic Centrol Found, which in December 1942 records of that the largets offendive righter d'out faire ne only se over the Arry's defensive task. Although the patter certiry 1 to be passed are ad at block levals in the or and lowy Departments, it never received a catiouscory colution, rists a primiting to have been dropped during the fall of 1923 when the Sourth Air Force passed from a

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defensive to a training mission.

During 1942-1943 the Second Air Force enroyed in a pre-limited cortrev. cay with the "over. In June 1942 Gener J Ol 3 visited In hirstor and was given to unlessed I that the Greend Air Force would be repulted to develop stations at Sutchingon, SeFrence, Newton, and Lyons, but ., but won he error well to only the sites, he found that the lay had already ele mil Tukuhin og with the Interdop optiontal Air Gentric Control is rd a d objected to Sheard dim James whereas the other three. Here, "he Disand We have find that to rive up and a could site, but in return the Tory and so any site which it sate the so that can be a set of a site at These Island, Isl. Tet on to the year anoth a control may be such that control 192 where in whiteto allowers himsels of all Chi readent what he described as "an estremaly and and dear" from the local impolential contarts of the the the months t statistic tthe many inducted to expand the training adaptities around later . I have the second of the state of a 35,000,000 at the strend in are to to the Proto of Courses. For and O with a decided furst to refer to the second to the site of the last of the strengt of the strengt, For that is the Thirber introntal Atria ofter Control is in the Aussia 10/3 fir 17, ordered the investe dist it activities to an editude of The star was first and to a radius of the star of I may " The a two a lot a were thus worldy satisfied by the ordinary relation of an ellable to the Int compartmental Air Traffic Coursel 1 and.

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lowy during the arring of the typer. To effect the entranders tother release read replace for a joint Arry-Prov Air Perfittion for ittee, which began to function in Loret.²⁹ This contribute on the effect of the divides to the business at band, but it also tool effect dealer for the divides dive use of all air the lift is. As a result of the alerent of, the roy second to represent the revietery detection. For the WP for a which it the reference the revietery detection. For the WP for a which it is result for forming all to rely on a forming price of, the court addition of all near the rely on a forming price of, the court before an element of the rely of a forming price of the detection addition of a configuration of the rely of the state of the detection and the matrix configuration of the rely of a first state of the detection addition of a configuration of the rely of the state of the detection addition of the restrict of the rely of a first state of the detection addition of the restrict of the rely of the state of the detection and in an AAP metric of the rely from even of the relation and the state of the relation is related and addition of the relation of the relation of the relation. addition of the relation of the relation of the relation of the relation addition of the relation of the relation of the relation of the relation. addition of the relation of the relation of the relation of the relation addition of the relation of the relation of the relation of the relation. addition of the relation of the relation of the relation of the relation addition of the relation of the relation of the relation of the relation. addition of the relation addition of the relation of the relation of the relation of the relation addition of the relation of the relation of the relation of the relation addition of the relation addition of the relation

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the board did not arres. There was clear indication from the erisode at for Diego that some unity of contard, carable of taking cont of resitive motion, was meeted at the top level to control both the Army and Navy.

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The problem of the costs of ANF installation, while could determined for individual stations from the project records maintained by the Office of the Chief of Engineers, is seembhat nore difficult be determine on an everall scale. Since the total - available were based upon alightly different schelule, or marcrite, during the war years, it is herd to find an exact figure for the cost of war construction for the MF.

Inventor figures for the value increase in 217 construction are based uron the sets of 30 Jure 1920, at which the the v low investment in such insiallations as continued in use threashold the wir envicodented 198,000,000, as may be seen in Cherf II. This flywre, herever, do " not ireluse the original cost of land, and it has the defect of irelation the cost of only these station which received to use. For this massa the cost of Mollett Field, estimated to be "X,664,651 and of the data, should at least be as eited to the total to act an appreximate cepital value of includd blove in presser of Jun 1940. The bothd walne of the ASE plant in June 19/0 would therefore over to b harrex1.441; 304,000,000. The emphasis which h is been to call upon the conformation of ∇ with result r concilients relatively unconstants d strifteld modilities at most of the per-1940 is set in clearly inderivably the arcents of more widely helten const. By 30 Septent & 1945 the total emptod invo doest in the then exceptly us 2 corrections additions had incomed to 2,991,000,470. The composition of this sum, in well of its moletion to the overall Map Percent and investment in error of installations, may be seen in

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0	5to	UILTI S	Ч	257,399	65,113	1,114,055		3,464				045.4.21.	1,460,429	2,430,986	•	120,959	622,229	01.0L	6.00	616.933	571, 599	701.931		7-63:222	725	1.2/1.273	•	720 64	1.356, 057		3\$	T, toy, tox		351,936	Tretallations, 15 3c
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Chart III. These flymes, however, so not a stain costs for "sollist : which had seen downlored but hid been transferent or a less prior to 30. Similar 3045.

The weights total converge of the value of the Der stands concretion rl end tota m 1 July 1940 and 31 Aurort 1945 to show boles in Chart IV. Juck Waar' placed" on "and to place" to beface is note that to of the costs of later, not mind is place" to beface is note that to of the other costs are block to work accordinate. The second state barber to control of the second costs of 3,150,000,000 or 20.5 are costs of the tot total for the net concretions. For the other work of the total for the second state of the second state of the total for the second state of the second state of the total for the second state of the second

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fairly meaning oppreximation of the cost of AMP control faillitie. For the period of the war everyoney, and it is not become to then the Invertency figures for September 39/2.

The triad in CAF command construction costs by month between Description 1943 and August 3945 mg be seen in Giart V. This chart also show a cost of an of AAF construction put in place by conth with the total War

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Depurtment excenditures for construction put in place by month. It well illustrates the transadous increase in MF construction activity during 1942 and the resolute, although slow, decline in construction activities during the remainder of the war period.

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Chart V

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VALUE (F 1	CONTINUED FORTHLY ON WAR OUTSTRUC THE CONTINENTAL UNITED STATES I NORLD WAR II	
Year and Nonth 1941	Total VD Construction	Total AAF Commund Constru tion
December	\$ 206,198,000	↓ 12,645,000
1942	5,565,875,000	1,716,102,000
January	205,167,000	42,312,000
February	203,392,000	33,307,000
l'arch	379,217,000	69,602,000
Arril	367,629,000	76,477,000
l'ay	418,261,000	106,940,000
June	539,204,900	151,535,000
July	720,364,000	217,724,000
August	£45,°01,000	241,535,600
Sertember	650,825,000	219,707,000
Ceteber	602,587,000	218,453,000
November	502,736,000	191,713,000
December	330,692,000	110,737,000
1943	1,893,569,000	821,132,000
January	285,456,000	93,164,0
February	224,926,000	76,695,000
Larch	203,008,000	81,294,CCO
April	197,220,000	115,471,000
Nay	200,417,000	82,508,000
June	172,693,000	83,475,000
July	161,372,000	76,795,000
August	121,634,000	60,327,000
Capterber	105,354,000	45,244,000
October	93,482,000	45,906,000
November Desember	74,052,000	30,806,000
December	53,955,000	24,147,000
1944	440,943,000	173,303,000
January	39,209,000	19,414,000
February Larch	34,565,000	16,344,000
Arcil	30,253,000	14,149,000
	30,278,000	15,180,000
Lay June	32,551,000	15,469,000
July	32,906,000	13,562,000
August	39,908,000	16,473,000
September	42,717,000	36,169,000
Cetober	37,673,000	14,334,000
Noverbar	41,711,000	12,917,000
Dacembor	43,769,000	13,261,000
1945	35,296,000	5,961,000
January	401,631,000	58,279,000
February	32,836,000	5,791,000
larch	33,452,000	5,382,000
Arrjl	51,412,000	5,797,000
lay	52,466,000	6,836,000
June	60,160,000	6,987,000
July	60,973,000	7,231,000
August	62,480,000	9,761,000
	47.852.000	<u>10,44,000</u>
TCTAL	\$ 8,509,116,000	° 2,7≈1,461,000

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Chart V - Continued

Source: ASF, Statistical Review, World Mar II, Appendix C, p. 84.

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Chart V - Continued

Source: ASF, Statistical Review, World Mar II, Appendix C, F. F4.

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GLOSSARY

AC/AS, MM&D	Assistant Chief, Air Staff, Materiel, Maintenance
AC/AS, M&S ASC ATC AWPD	and Distribution Assistant Chief, Air Staff, Materiel and Services Air Service Command Air Transport Command Air War Flans Division
CAA	Civil Aeronautics Authority
CCC	Civilian Conservation Corrs
FRTC	Fighter Replacement Training Center
F3A	Farm Security Agency
CCAC	Cffice, Chief of the Air Corps
CCE	Office, Chief of Engineers
CTU	Operational Training, Unit
CMC	Quartermaster Corps
RTU	Replacement Training Unit
WDGS	War Department General Staff
WPA	Works Progress Administration
WPB	War Freduction Board

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Chapter I

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- 100. Itra, 757. 2. M. 10 2. 0 1 2. 3 Mig., UN 3, 76 3, 5 1. Min. 1 - Pon Scon 4 Strifton C Junkies, 7 Mig. 3 /1, 14 ... 200.1 - 1.
- Jol. Nord, N. J. Nord, N. 100013, 0.100, L.R. te 0/0, L.S.: Alpreab Nord Stor Free Nor, J. Cot. 1973, in 1000 Con-3.
- 175. 3r. of the of the., 2, 3 (of . 16/1; <u>1710</u>., ((), 1717, 16 − 200) 012-01.
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- 204. Chart. Schliften & transforme Schlift, St. 2010, 1993, 1993, 1993, 1993, 2010 2. The total endite Exchange of the Standard St. Slitter ton 20, Schlift, Bence and St. Coursell-Standard, St. Suite Suite SG, Theolards, Ferrician (St. 1990, St. Schlift, St. 77, Sroom The SS, Standon (S. St. 1990, St. Schlift, St. 77, SG, Camport, St. St. St. St. St. Schweber 1975, 1995, 14 Show off, ST. Tare SS, Succession, St. 2010, 1995

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- 205. Nemo, Gol. T. F. Borenson, NG/AS, A-4, to C/S, cub.: Selection of New Air app Sites, * Pec. 19/1; amanded and approved by Maj. Gen. M. M. Amald c. 2 Dec. 19/1; in AG 606 F.
- PC4. Yerr, Child, MGA Div., CANO, to C of D, 20 Dec. 14/1, in AAB 686 F. An all-pursise airfield was to have housing for the 64 officers of a redium howh squadro, for the 212 men of a heavy bonta dment squalres, and lading fecilities for the heaviest type of places then in use.
- 207. Itr., 307. F. I. Sorenzon, AC/AS, A-4, to S of D, sub.: Construction of D re- Yew Mir Phys, 1 Jan. 1942, in AMB (26 F.
- 200. Itr., 723 to 3 of 7, 3/40, sub.: Selection of New Air area, 31 Dec. 10/1, in 13 570 (12-20-41) MC-AAF.
- 200. G.E. List. Tranch, Mil. Constr. in the United States Unier the Direction of the MG and the C of F. v. 2, p. 1/0; memor, Col. U. J. Heed, Chief, T.G. Div., to C/AC, rub.: Generation Status of Current Construction program, 6 Seb. 1922, in und 600.1 G.
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- P14. Fit. Sygna Mrmy Ainfield, Activation to 1 Mar. 19/3, v. 3, FF. 1/-62, in MEMC 200-00, v. 1.
- 17. Wist. Joetheurne Mary Mr. 200, Activation to 27 Pec. 1979, v. 1, pr. 2-17, in A Div 225,717-1, v. 1.
- (1). Only the similation at Siour City was located on a located airfield, and this municipal field via leased for exclusive military une. (Air, Installations Dimetory, 1 July 10/2).

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- 220. Hist. Fueblo Arry Air Lase, 25 Mar. 19/2 to 31 Dec. 19/2, Fr. 1, 4, in ArSHO 27.60-1.
- 221. Hist. Topeko Army Air Face, 1 Aug. 19/2 tr 33 Fee. 1942, pp. 1, 8, In AFENC 279.1(-1.
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- 930. pA ind. (lin., inid. 2010. J. A. schinger, C/3, Od Mary, to MAR, with: 30th tea. Sq. / Mary/, 19 May 10/1), Sci. 4. C. Curtis, Exec., J1 or Div., (CDS, to DAR, 9 June 10/1; Itr., 143 to Shief, 143, ent.: 20th tea. Sa. (wrap), A duy. 19/1, in 14 370.5 20th Jerona dismate Satisfy (C-19-/1) MC-5.
- 222. Its., 23 to 03ts Compositions, ut.: Investion and Antigement of Setting Composition Equations, Air Cores, 2 Cat. 1777, in 13 340-2 (1-1-10) 11 (14t) 11-2.
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- 234. Intelle Teache. 201, 76 Grade, 3 Grase, 74 <u>Alet.</u> 772, 9 Jept. **1940**; 1the, min to the 19, rule: Galetractics of Value 1 in ritrity, 11 and 1940, in 19 601-19 (C-16-40) 190-21; Col, Ohlef, 130 - Dive, 010, Values, (200, rule: Value of Ontal Units, 25 Jest. 1970, in 1 Jic 202-39, 010 Ilers.
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- 270. 10 by min. 100. M. C. Cangul, Cliff, Instantic Div., ChiG, to C/10, 7 June 1173, The CD C 325 M, U 40 37 MS.
- 242. 10-0, C/10 to C/3, onb.: Combat had's as of the constitution by then, 1.
- T and to 3 7 H 6 a set law b fee. The bolt to 14. Gen. 4. 4. General 14. Contain France, It. 190. en Lear, It. Jon. H. 5. Dr :, and It. for. 7. 7. Doubled or 27 June 1947, in 2010 320.4, 0010 1903).

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- 275. Ital, 171. Cer. 1. 1. Smirld, CHAR, 201, to CL 100, mit.: 15m. Serient Teleton, CC 7023 1921, to ACC (300.1, 000 70 1.
- 24. 30 37, 107, 20 107, 1073; melt, 11, 274, D. 0, 10 cr., 10 107, to 05309, 230, 3 107, 1073, 10 1070, 2013-20; 10 4, 10 10 c, 10 000; 10 10 10 10 10 11 1077, v. 1, yr, 107, 1070 1072, 1072, 1072, 10 1077, yr, 300, 10 10 000 DeteOnyell, 2 004, 1072, 0772, 10 3cml, 7 D 4, 2010 50 0 y1, 30 1, yy, 100, 10 100, 10 3cml, 7 D 4, 2010 50 0 y1, 30 1, yy, 100, 10 1000 10 0000 00-2017, 7000, 1073.

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- 3. The of Steres tra, 442, o fee. 10/3, in 19510 1052-54.
- /. 1. rr, Col. T. F. Common. 10/10, 1-/, All, to G/AC, out.: Construction of The Min. 100, 13 No. 10/1, the 100 606 F.
- 5. Cot, That. most, 117. Constr. In the mithod States Prear the Discotion of the TTG and the Clot E, v. 7, yr. 154-259.
- A. Stat. A W, 7 Pro. 10/1 to 17 De. 15%, V. 1, 17. 3-24.
- COP, Mast. Couch. 11. Constr. in the Initial 2 -1 a Labor the Die etica of the D.A and the God F, V. C. TY. 107-105; Mr., orig. Con. 1. D. Styr, G/G, D. GOS, what identified the Incoduce Fe-Lating to Construction, initial according 1. 1 in, Low of the Initian, 201. p. 1972, in AMB (GO.1 1-3.)
- The split to 6/20, out a Construction of MaryJore webshid in the Anddrewth That a States, Align, Join, in the 10-50 (2-21-12) Market.
- 9. 672, "Fit. rurch, "". Gruntr. In B. Thit ' State "his the Bluetics of the SG and B. Gon F, v. 2, J. 397-721.
- Tr. Mint. Der 71d, Activ tien to 66 75. 20/7, pr. 177-1-7, in The oro.pr.a.
- 11. Htt., It. Gol. D. F. Graul, 'x e., 17.18, to 60, ' stern Deferse Several, rub.: Durry Air news Grante. Respect, 23 - aly 1912. In MG 600 I; Titt. Merry 1 Mary Air are, Jun 1912 to 'Th. 1910, v. 1, 97. 50-10.
- To. Jam., pla. Not. 1. F. Titter, DOS, to Num. Tond, Dr. Belve'r, W., 16 Not. 1917, Sector 607.1.
- 13. Kr., Min to This, Perence Condu., The: Indiction Discurse, 5 Lar. 19/2, in 19 371 (2-75-/3) C -C-CF-MC-M.

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- 14. Int ind. (ltr., Col. J. C. Sively, Greet, W/G, D, to CG /th AF, sub.: Burther Constr. of Instate Instantion Construction ATF Installations, 23 Cept. 19/3), "CJG ". I. Dett, List. 19, 4th ATF, to CG, NF, 9 Cet. 19/3; 2d ind., Col. J. C. Selvely to CG 4th AF, 25 Cet. 19/3, in AAG 600.1 G.
- 15. Firt. I Ftr. Cond., Pic. 3947 to July 1977, v. 2, Arreadix, 5-5, in Appronage-TT-1-FT, Dec. 1943; Wilt. Andley Fla, 7 and 1973 to 37 July 1974, v. 3, pr. 102-104; Wilt. Mestever Fld, 1909 to 31 Dic. 1973, v. 1, pp. 23-34; Wist. Wittel Fld, 1917 to 1977, v. 1, pp. 43-42.
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- Constitution 3 Development, Northwest Air District of 3 st Min Force, 39 Nov. 10/0 to 31 Noc. 19/9, pp. /3-/1, in 1 200 Li-J-Pl, 19 Nov. 19/0.
- 1°. Itr., Col. ". A. Greig, 19/AD, ID no. ME, to Di lat Di, auto: Bor of Televild Surrent for Furmit Lar Dress, 30 Arr. 30/2, Jul V 1 666 L.
- 19. Itr., Gol. ". P. Scrulveen, AG, 1-t 'F, to CG MR, cub.: Actigement of Mixtrones and Installations to First Min Copp. 10 June 19/9, in MAG 686 ".
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- Pl. "Let. 191299730 (mg Sir Sce, Pec. 19/0 to 3 July 1997, m. 1, rr. 1-2, to 1 200 276-73-3, v. 1.
- 22. The., Irig. Ser. S. (ID. Tunter, CR Let AF, th CR MD, rub.: Flow for Une of their Min Soles area, 7 (et. 1973, in 109 (20.1 3.
- P3. Itr., M.J. G.L. Collect. The , CR 1 to M, to M MR, 22 Ar. 35/2; - R, Col. M. R. Mollec, 17 MD, to 17 (5, 20 Mon. 19/3; - R, - M); Cen. I. F. Malten, MM B, to 1 400, 2 Apr. 19/2; Thus, 03 MMD, to 10 MD, 3 Apr. 19/2, to 102 CM. J.
- 24. Wint. Suffall Scinity Mary Mar Field, 17 May 18/3 to 1 Nor. 19/4, 7, 1, tp. 17, 13, 17, in NOW 277,94-7, 7, 1.
- P5. Hist. Warp Spills a long Marticle, Translet to 31 Tec. 3572, pp. 2, 5, 9, 13, in 17500 000.00-1.
- 26. MT, D'AMAN THI, 7 Dec. 2012.
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- 23. <u>Bid</u>., r. 235; Fist. Femiliton Fld. Jn red Nucl. 34. 3519 to 21 Jen. 1977, r. 47.
- 72. Creditentics of Jureticus of the AP, 2010 to 3015, v. 3, y. -33-14.
- 45. Ibr., 191. C. ... P. Field, C. AF. AR. to C. C., Y.: What Infority Minisce of for the Ath MP, 10 Th. Pring the Mestion and Paretices of M. Ath. N. 1920 to 1920, v. 1. v. C. <u>1920</u>, v. 2, 10,24.
- H. Itr., It. Men. J. J. Delit, CA. TR, in CA. S. C. .: Met Infority Minimerse for the /th P. CC. n. Mills, <u>111</u>, N. C. C. 26.
- 47. Bet Ind. (Btr., Get. J. C. Detmets, M.C. M.S. AN TARKER, COL.: Described Freedom of Genetic allocations and M. J. M. J. Met. B(2), 23 J. Morent Metricial Contraction of the M. J. Metric B. (2), Constructions of Directions of the Million and the Policy of B. S. C. The
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- 20. Line, T. T. Thell, And A. And Antra 1, 200, a fill after all interacting All, A. F. T. Thell, in L. Contra 1, 200, and a fill a fill and interaction and a fill in the second and the second and the second fill and the end of the second and the second fill of the second fill the animic of the second and the second fill and the second fill and the animic notion of the second second fills and the second fill and the second second fills are the second and the second fill and the second second fills are filled.
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- 51. Three Cole 1. 1. Annaly, J., 20, 2017, 40 22 (3), 51.1 Jet (3) Inforting Tiel Con. (1993) (3) Cole constitutions and the first formation JOVE, in IND COC F.
- 1. Noro, J.A. Col. Science (COloche) for Sci. 2. Mandenberg, 2013, Jin L., 2014, Science of Almonth's Color, 2016, 2017, 20
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