

US Army Aviation Training Library
Fort Rucker, Alabama 36360

"A BOVE THE BEST"



1970
HISTORICAL
SUPPLEMENT



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Fort Rucker, Alabama

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MAJOR GENERAL DELK M ODEN

COMMANDING GENERAL

28 FEBRUARY 1967 - 22 SEPTEMBER 1970

PREFACE

This annual supplement is a resume of the historical events in which Headquarters, United States Army Aviation Center participated during Calendar Year 1970. It provides accurate, objective accounts of the most important aspects of the activities of this headquarters during this period. The problems encountered, their solutions, results obtained and lessons learned will be a basic source of knowledge to the headquarters staff in the development of future doctrine, plans, policies, organization and training. In addition, this publication reflects the high degree of individual and organizational morale and esprit found within USAAVNC.

Information contained in this annual supplement was based on reports submitted by the various directorates and activity directors of the installation. All material is presented in an impersonal and objective manner. Details, where possible, were omitted for the sake of brevity. Material statements of fact, which are not supported by a reference, can be supported by reports from office directors, which are filed in this headquarters.

This report was prepared in compliance with Headquarters CONARC Supplement 1 to AR 870-5 and instructions contained in Style Manual for Use in the Preparation of US Army in World War II Histories - a publication of the Office of the Chief of Military History, Department of the Army.

Agencies or individuals, public or private, may reproduce, quote or otherwise use any portion of the contents contained herein provided use is judged to be in the best interest of the United States Army. Assistance will be given all official and unofficial inquiries for additional information about Fort Rucker, the US Army Aviation Center/School or attendant activities, provided information is unclassified and its subsequent use is provided for in AR 360-5.

The Calendar Year 1970 annual supplement is the sixth in a series of Headquarters, United States Army Aviation Center annual supplements which began in Calendar Year 1965.

It is suggested that this publication be distributed on a general basis to include post libraries, reading and waiting rooms and other areas designed for information perusal. Additional copies are available upon request.



MAJOR GENERAL ALLEN M BURDETT JR.

COMMANDING GENERAL

23 SEPTEMBER 1970 -

HISTORICAL BACKGROUND

Today's established home of Army Aviation began as the Ozark Triangular Division Camp in May 1942. In June 1943, the area was renamed Camp Rucker in memory of Confederate Colonel Edmund Winchester Rucker, and became the World War II combat training site for the 35th, 66th, 81st and 98th Infantry Divisions.

Following World War II, Camp Rucker was deactivated; however, the outbreak of Korean War hostilities necessitated its revitalization. In August 1950, Camp Rucker became the training site for the 47th Infantry Division.

The present mission of the post began in August 1954 with the relocation of the Army Aviation School from Ft Sill, Oklahoma. The designation "Army Aviation Center" became official in March 1955. Recognition as a permanent post, serving as both the U.S. Army Aviation Center and Aviation School, came on 26 October 1955, when Camp Rucker was officially redesignated Fort Rucker.

The early history of Army Aviation is completely divorced from the early history of Fort Rucker; the former going back to 6 June 1942, when the War Department approved organic aviation for the support of field artillery.

From 1945-50, the Department of Air Training added refinements to instruction programs, and the widespread use of aircraft in combat resulted in the establishment of Army Aviation at Ft Sill.

Since the mainstream relocation of Army Aviation and its associated aeronautics to Ft Rucker, development of the airmobile concept and the escalation of hostilities in Southeast Asia have necessitated expansion of both fixed and rotary wing capabilities.

Foremost in this expansion program is the fact that Army Aviation is no longer singularly concerned with the vital support of artillery, but its requirements have graduated to the point that it is now recognized as an organic function of the total Army, and its operational roles are deemed as important as those of the Infantry, Armor or Artillery units it serves.

Today, the mission, concept and design of Army Aviation, supported by the U.S. Army Aviation Center and Aviation School, serves as a nucleus to the overall success and major accomplishments as reflected in the modern army.

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CHAPTER 1



U. S. ARMY AVIATION CENTER

OFFICE OF THE SECRETARY GENERAL STAFF

On 7 January 1970, General Westmoreland visited Fort Rucker for two days of flight instruction.

On 9 January 1970, Colonel Samuel P. Kalagian assumed the duties of Chief of Staff, United States Army Aviation Center, and Colonel Lloyd O. Pruett assumed duties of Secretary, United States Army Aviation School.

Mr. William K. Brehm, Assistant Secretary of the Army, visited Fort Rucker to observe management techniques on 20 January 1970.

On 23 January 1970, Major General John L. Klingenhagen, Commanding General of the Aviation Support Command was greeted by Major General Delk M. Oden. Purpose of the visit was to look at the Test Board and discuss Aviation Logistical situations.

On 9 March 1970, Major General Delk M. Oden welcomed the "Bataan", General Douglas A. MacArthur's aircraft, as an addition to the Army Aviation Museum.

On 3 April 1970, Major General Delk M. Oden administered re-enlistment oath to 49 Fort Rucker personnel during Career Day ceremonies.

On 10 April 1970, U.S. Representative George Andrews received a plaque from Mr. Robert Ellis, President of the Bogardus Cairns Chapter of the Association of the United States Army. Representative Andrews was guest speaker at their quarterly meeting.

The Army Aviation Program Review for 1970 was held at Fort Rucker on 21-22 April. General Bruce Palmer, Vice Chief of Staff of the Army, headed the group of principal attendees.

The Annual Foreign Attache Tour visited Fort Rucker on 30 April 1970. For the first time representatives from Soviet Bloc nations accompanied the tour.

On 15 May 1970, Mrs. Douglas A. MacArthur attended dedication of her late husband's airplane "Bataan" as a permanent display in the Army Aviation Museum.

Lieutenant General John J. Tolson, former Commander of Fort Rucker, returned as a guest speaker on 16 June 1970.

On 26 June 1970, Colonel Frank F. Carr and Miss Sybil Adams, Special Services, cut the ribbon on the renovated Center Library.

On 31 July 1970, Colonel Frank F. Carr, Deputy Center Commander, retired after 31 years of active service.

On 31 July 1970, Colonel Earl W. Fletcher assumed the position of Deputy Commander.

On 1 August 1970, Fort Rucker reorganized under a Directorate Staff Concept.

The Association of the U.S. Army sponsored an Airmobility and Aviation Systems Symposium at Fort Rucker, on 2,3, and 4 August 1970.

On 19 September 1970, as his last official act, Major General Delk M. Oden, Commanding General, awarded General William C. Westmoreland, Chief of Staff, U.S. Army, his flight wings.

On 22 September 1970, Major General Delk M. Oden retired after 33 years active service.

On 23 September 1970, Major General Allen M. Burdett, Jr., assumed command of Fort Rucker and the Aviation School.

On 3 November 1970, General Fathollah Minbashin, Commanding General Iranian Ground Forces, visited Fort Rucker for an Army Aviation orientation.

On 17 November 1970, General Leonard Chapman, Commandant, United States Marine Corps, visited Fort Rucker to inspect the training of Marine helicopter pilots.

On 1 December 1970, Lieutenant Colonel James T. Bridges assumed the duties of Secretary, United States Army Aviation School, replacing Lieutenant Colonel James T. McQueen.

On 2 December 1970, Mr. Eckhard Bennewitz, Deputy Comptroller of the Army and Major General Autrey J. Maroun, Special Assistant to Comptroller of the Army, visited Fort Rucker for discussions on base operations, workload and expenses.

General Hayao Kinugasa, Chief of Staff, Japan Ground Self Defense Force paid an official visit to Fort Rucker on 7 December 1970.

On 10 December 1970, Chaplain (LTC) Burton G. Hatch assumed duties as Center Chaplain at Fort Rucker. Chaplain Hatch succeeded Chaplain (COL) Malcom Sadler.

On 31 December 1970, Colonel Bill G. Smith, Assistant Commandant, retired from active duty after 30 years active service.

DIRECTORATE OF PERSONNEL AND COMMUNITY ACTIVITIES

PERSONNEL STRENGTH AT FORT RUCKER, AS OF 31 DEC 70:

	OFF		WO		ENL		MIL TOT		CIV	
	AUTH	ASGD	AUTH	ASGD	AUTH	ASGD	AUTH	ASGD	AUTH	ASGD
CLASS I TOTAL	1277	1662	704	946	5677	7196	7658	9804	2459	2207
CLASS II ACT, TOTAL	180	145	31	56	267	261	472	462	354	303
TOTAL STUDENTS		1230		245		3051		4526		
POST TOTAL	1457	3037	735	1247	5944	10508	8130	14792	2813	2510

ORGANIZATION:

Assistant Chief of Staff G1/2, reorganized under CIMS on 1 July becoming the Directorate of Personnel and Community Activities (DPCA). The change resulted in a loss of the Security and Manpower Divisions to DPTSEC (reorganized Assistant Chief of Staff, G3) and of the Field Printing Plant from DOSS. The former Personnel Management Division was redesignated Officer Personnel Management Section and transferred to AG Division. However, due to operational necessity, it has remained OPCON to the Director's office.

PERSONNEL:

The following significant personnel changes occurred during CY 70:

13 July 1970, LTC Joe D. Jobe assumed duties as Deputy Director, DPCA, Services, replacing LTC Douglas Schneeman who was reassigned to Command and General Staff College at Fort Leavenworth, Kansas.

1 August 1970, Colonel Jack H. Dibrell assumed duties as the Director, Personnel and Community Activities, replacing Colonel Paul C. Smithey.

OFFICER PERSONNEL MANAGEMENT SECTION

ORGANIZATION:

1 July 1970 Personnel Management Division was redesignated the Officer Personnel Management Section and assigned to AG. However, operational necessity has required that it remain OPCON to the Director's Office.

ACCOMPLISHMENTS:

The following are a few of the more significant personnel actions performed by the Officer Personnel Management Section staff during CY 70:

1. During CY 70, Officer Personnel Management Section, DPCA, interviewed approximately 900 newly assigned officers and warrant officers for initial duty assignments and nearly 400 for intra-post assignments.
2. During July approximately 1000 officer and warrant officer flight records were screened and 300 aviators interviewed in an effort to identify qualified military Instructor Pilots to assume flight training functions left open in the wake of the Embry-Riddle contract default.
3. During the months April through June numerous Enlisted personnel were identified, through screening of personnel records and interview, to train for and assume post security responsibilities in anticipation of a then proposed cancellation of the Civilian Security Guard contract.
4. During the period February - August, this office actioned a post-wide recruiting effort to obtain qualified military personnel, pending release from active duty, for possible placement into the Washington, D. C. Police Force training program. As a result of this recruiting effort 12 Fort Rucker personnel submitted application for placement into this law enforcement training syllabus.

PERSONNEL SERVICES DIVISION

ORGANIZATION:

On 1 August 1970, under the CIMS Study, Deputy G1, Services, became Deputy Director - Personal Services. The Personnel Services Division became Personnel Services Branch, and Special Services Division became Special Services Branch.

On 1 August 1970, Safety Division under G3 was divided and TT&I Safety became a branch of Personnel Services Division.

PERSONNEL:

On 16 January 1970, Major Adah B. Rapier assumed the duties of WAC Staff Adviser and Equal Employment Opportunity Officer.

On 16 February, Major Joe D. Jobe was assigned to G1 in order to conduct 1970 Census. He came to us from RVN.

On 15 July, Major J. Thomas H. Denney, Chief, Personnel Services Division, was reassigned to the Command and General Staff College at Fort Leavenworth, Kansas.

On 1 October, LT Vernon Alford was assigned as Custodian, Central Post Fund upon his arrival from RVN.

ACCOMPLISHMENTS:

The outstanding accomplishment of the Personnel Services Division was staffing the possibility of a Correctional Custody Facility at this installation. This facility, under the jurisdiction of the Provost Marshal, went into operation 25 August 1970.

During July 1970, Embry-Riddle Aeronautical University, Daytona Beach, Florida, established a baccalaureate program at the Education Center.

SPECIAL SERVICES BRANCH

ORGANIZATION: During CY 70, Specials Services was placed under the Personnel Services Division of the Directorate of Personnel and Community Activities and so designated as the Special Services Branch.

PERSONNEL: A large turnover of personnel occurred during 1970. LTC Glenn E. Miller assumed the duties of Chief of Special Services on 12 Dec 70, replacing LTC James H. Watts, Jr who departed for RVN.

ACCOMPLISHMENTS: The total accomplishments of the Special Services Branch was a combined effort of all sections of Special Services.

YOUTH ACTIVITIES SECTION

ORGANIZATION: Youth Activities covered a wide area of activities to include a scouting program, football, baseball, and basketball teams, cheerleading, bowling, Rifle Club, Pony Club, Teen Club, Children's Theater, Driver Education, Day Camp, and Guitar Lessons.

PERSONNEL: During 1970, CPT William B. Bofenkamp assumed the duties of Youth Activities Director.

ACCOMPLISHMENTS: Fort Rucker Youth Activities culminated a fine year with a highly successful football season, taking home the first place trophy at the Invitational Tournament held in the Daleville High School Stadium. The year also saw the termination of the 1970 Little League Baseball Season with Fort Rucker winning the Southeastern Military District Baseball Tournament.

SPORTS SECTION

ORGANIZATION: The Sports Section operates the Golf Courses, Bowling Alley, Skeet Range, Sports Arena, Men's and Women's Health Centers.

PERSONNEL: In July 1970, Lamar Caldwell was hired as the Sports Director, giving the Sports Section an experienced Recreation Specialist to run the activities.

ACCOMPLISHMENTS: Fort Rucker was the host post for the Third U S Army Softball Tournament. The highlight of the Sports Section was the Fort Rucker All-Star Flag Football Team placing 2nd in the Third U S Army Flag Football Tournament.

CRAFTS SECTION

ORGANIZATION: The Crafts Section operates a wood shop, ceramics shop, photo lab, auto craft shop, and a multi-crafts shop.

PERSONNEL: In May 70, CW2 Warren E. Lowry was assigned as the Crafts Director.

ACCOMPLISHMENTS: The Crafts Section had an increase of participation and new equipment added during 1970. In February, a sculpture display entitled "Phoenix" was entered in the Third U S Army Sculpture Contest and won first place. In June, Arts & Crafts classes for children were started and held twice a week during the summer.

ENTERTAINMENT SECTION

ORGANIZATION: The Entertainment Section provides stage productions and special entertainment groups at the Division Theater, and also operates a music center.

PERSONNEL: No significant personnel changes occurred in 1970.

ACCOMPLISHMENTS: The Entertainment Section presented stage plays to include; "20 Years of Rock", "Tell It Like It Is", "See How They Run", and "A Thousand Clowns". A drama, "Angel in the Pawn Shop", was judged the best play in the Third U S Army Tournament of Plays. An evening of Readings, "USA is", was offered on 3 July. Three Third U S Army Soldier Shows were presented. The Entertainment Section wrote and presented "A Tribute to General Delk Oden" for his retirement.

LIBRARY SECTION

ORGANIZATION: The Library Section has one Center Library, one Branch Library, and a small Library at Lyster Army Hospital.

PERSONNEL: In May 1970 the Professional Library Staff was increased by one Professional Librarian, Betty Brown.

ACCOMPLISHMENTS: The Center Library was reopened on 22 Jun 70 in building 117. New furniture and study tables were added. Service to the Library patrons on post was improved by having the Center Library open every day of the week.

RECREATION SECTION

ORGANIZATION: The Recreation Section is divided into the Lake Tholocco Recreation Area at Fort Rucker and the Trailer Park Recreation Area in Florida.

PERSONNEL: No significant personnel changes occurred in 1970.

ACCOMPLISHMENTS: Fort Rucker Trailer Park in Florida was improved by acquiring new equipment such as 19 new 18-HP motors, more rods and reels, new life jackets and cushions, and new cookware was placed in all trailers. The fishing pier was made available for night fishing by installing a lighting system. Twenty new camp sites were equipped with outside electrical receptacles to connect camper trailers. In late December, plans for a 45-foot deep sea fishing boat were initiated. Lake Tholocco Recreation Area at Fort Rucker acquired new equipment to aid the program. Also the fishing pier was rebuilt.

THEATER SECTION

ORGANIZATION: The Theater Section has two theaters, Tank Hill and Post Theaters.

PERSONNEL: LT David A. McClure was assigned as Theater Officer in October.

ACCOMPLISHMENTS: During 1970, the Post Theaters took part in the Celebration of the Golden Anniversary of the Army and Air Force Motion Picture Service. A new classification of motion pictures was incorporated. Motion pictures rated "X" were allowed to be booked for playing at Fort Rucker.

SERVICE CLUB SECTION

ORGANIZATION: The Service Club Section operates one Service Club.

PERSONNEL: The Service Club lost a valuable professional staff member, Mrs. Joan M. le Riche, in December.

ACCOMPLISHMENTS: The Service Club has been open each day during CY 70, which resulted in a total attendance of 548,832. Fort Rucker Service Club won third place at the Third Army level of the Service Club Program Contest in all three categories. A silver trophy was received from DA for honorable mention in Category III of the contest. Trips taken included a tour of the Alabama State Capitol, Maxwell AFB Service Club, The Roller Derby in Dothan, Florida Caverns, and Hilltop Stables in Ozark. Special programming featured art instruction on Thursday nights, leather works demonstration presented by the Crafts Section, a post-wide Ping-Pong Tournament, Pocket Billiards demonstration given by internationally famous trick shot artist, Jack White, drama workshop programs in July, and a new activity was the American Indian Culture Heritage in August. A free gift-wrapping section was established on the 20th of November for the enlisted military and their dependents. The Service Club provided Christmas wrapping paper, ribbon, bows, labels, etc., brown wrapping paper for postal mailing, string was also furnished. Professional assistance from staff members was provided. Continuous and heavy programming was presented during the long weekend holidays. The monthly Birthday Parties, Entertainment Talent Contest, Weekly States Night Parties and Panel Shows remained popular and a variety of good professional variety shows and bands were featured.

FORT RUCKER EXCHANGE

ORGANIZATION:

On 26 September 1970, under the integrated management concept, the PX was released from control of the Installation Commander and placed under control of Chief of the Southeast Exchange Region.

PERSONNEL:

The following management changes were effective in 1970:

Mr. Charles L. Bennett, General Manager, was transferred to AAFES headquarters in Dallas, Texas, in January.

Mr. David C. Crass was transferred from Luke AFB to replace Mr. Bennett in February 1970.

Mr. Jack Burton, Main Store Manager, resigned and Mr. Wayne Falley was transferred from Thailand Regional Exchange to replace him in October.

ACCOMPLISHMENTS:

New contract for gasoline was implemented on 1 April 1970, which changed from Gulf to Standard Oil.

An Amusement Center was opened in Bldg 9205, August 1970.

A new semi-automatic Snack Bar was opened in Bldg 106, Knox AAF, November 1970.



ADJUTANT GENERAL DIVISION

ORGANIZATION:

Effective 1 July 1970, in conjunction with the CIMS reorganization of the US Army Aviation Center, the Adjutant General activities became a Division under the Directorate, Personnel and Community Activities. Responsibility for the Army Community Services Program was transferred to Personnel Services Division, of the Directorate.

Effective 1 December 1970, the Flight Records Division was transferred to the Directorate, Plans, Training and Security.

PERSONNEL:

The following significant personnel changes occurred during CY 70:

LTC Loyd R. Bardwell assumed duties as Adjutant General effective 6 Aug 70 replacing MAJ John A. Foster who departed for the Command and General Staff College. LTC Bardwell joined the Command following a tour with AG Section, HQ, MACV.

MAJ Louis M. Butts, Jr., continued as Chief, Center/School Personnel Branch.

SGM Robert R. O'Connors assumed the duties of the AG Sergeant Major effective 7 September 1970 replacing SGM Aplin who was reassigned to Headquarters, Department of the Army.

ACCOMPLISHMENTS:

The US Army Aviation Center and School underwent a DA Military Personnel Management visit during the periods 2-11 Feb 70 and 3-14 Aug 70. Only minor discrepancies were noted.

During the CY 70, Fort Rucker continued to lead other Third Army installations of comparable size in the reenlistment program. Following are awards received from HQ, Third US Army during the year:

Third Qtr, FY 70 (Jan - Mar 70) Group II - 172.43%
Fourth Qtr, FY 70 (Apr - Jun 70) Group II - 168.86%
Third Army Commanders Reenlistment Award - FY 70, Group II
First Qtr, FY 71 (Jul - Sep 70) Group II - 166.67%

US Army Aviation Center Reenlistment Trophy was presented to the major subordinate command that obtained the highest reenlistment percentage on a quarterly basis. Recipients of the award during the year were:

3d Qtr FY 70 (Jan-Mar 70) - USAAVNS Bde - 202.97%
4th Qtr FY 70 (Apr-Jun 70) - USAAVNS Bde - 211.96%
1st Qtr FY 71 (Jul-Sep 70) - 53d Avn Bn (Cbt) - 236.90%



CHAPLINS DIVISION



ORGANIZATION:

On 1 July 1970 under CIMS, the Center Chaplin became a division of DPCA.

PERSONNEL:

Chaplin Sadler, Center Cahplin, departed for Korea in December and was replaced by Chaplin Hatch.

ACCOMPLISHMENTS:

During the spring the Protestant Youth of the Chapel presented a musical "Tell it Like it is" to over 900 people on post. The production was also presented in two local churches with equal success.

A Presidential Prayer Breakfast was held at the same date and time as the Presidential Prayer Breakfast in Washington. Major commanders on post were invited to this breakfast.



ARMY COMMUNITY SERVICES

PERSONNEL:

MAJ Richard L. Buxton was assigned in June as Special Assistant to DCO for ACS, replacing MAJ Elwood J. Becker, Jr.

CPT Robert W. Stewart was assigned in September as Professional Services Officer, replacing CPT John S. Shalett.

Mrs. Gordon T. Kaelin assumed duties as Volunteer Supervisor in April, replacing Mrs. Howard Lukens.

ACCOMPLISHMENTS:

In November ACS assumed responsibility for all inquiries pertaining to CHAMPUS.

Handicapped Services Committee conducted a two week day camp, plus Saturday outings throughout the year. Swimming, arts and crafts, bowling and tours were conducted.

Continuous effort was placed throughout the year in providing information down to company level so that all enlisted men would have a better understanding of the services available at Army Community Service.

CIVILIAN PERSONNEL DIVISION

ORGANIZATION:

On 1 July 1970 the Office of the Civilian Personnel became a division under DPCA.

ACCOMPLISHMENTS:

On 19 November 1970, NAF employees voted to be exclusively recognized by Laborers International Union North America, Local 1054. A proposed contract will be submitted by the Union early in CY 71.

Contracts were negotiated with the American Federation of Government Employees, Local 1815 and the Wiregrass Metal Trades Council. The contracts were approved by the Commanding General and union presidents and forwarded to Department of the Army for approval.



PROVOST MARSHAL DIVISION

ORGANIZATION:

On 1 January 1970 the Physical Security Branch of the Provost Marshal's Office was established in accordance with AR 190-33, to assist and advise commanders on the Physical Security Program as it involves security of weapons, ammunition and other sensitive items.

PERSONNEL:

On 3 November 1970, LTC Mac P. Kesler, Provost Marshal, departed on PCS to Fort McPherson, Georgia. Major Loyd A. Barrentine assumed duties of Provost Marshal. CPT Allen, Operations Officer was moved to Deputy Provost Marshal.

ACCOMPLISHMENTS:

During June 1970, the contract for Industrial Maintenance Service to provide security guards for the installation and its facilities was renewed for one year effective 1 July 1970.

The Provost Marshal's Office and the 141st Military Police Company were hosts to the 125th Military Police Company, US Army Reserve. The 125th Military Police Company conducted summer training and was utilized on military police duties in conjunction with 141st Military Police Company.

NONAPPROPRIATED FUND SERVICE CENTER

ORGANIZATION:

During March a Special Project Officer from the Management Information Systems Office was assigned to the NAFSC to assist in the development of computer programs and to advise the Chief, NAFSC on ADP matters. During the month the NAF payroll was automated for all employees.

During the month of April, the BOQ, Guest House, Bookstore and Wildlife Funds were added to the list of participating funds.

During July an Audit Team from the USAAA arrived to conduct an audit of the FRNCOOM and NAFSC, which was completed in October.

In September a military officer was assigned as Chief, NAFSC and the Assistant Chief NAFSC was relieved of duties as the Assistant Custodian, Central Post Fund.

During October the NAFSC organizational structure was reviewed and consolidated along functional lines. Performance standards, functions, and operational procedures were written and a reaudit of positions was requested. Also some of the programs being used by the ADP Branch were reviewed and refined to provide better information to fund managers.

Several new computer programs were developed during October, November and December, these included a Class VI Store Sales Report for the FRNCOOM; an Accounts Payable Program for the FROOM and FRNCOOM, which began parallel operations on 1 Dec 70; an automated program for accounting for fixed assets; and several changes to the payroll program to comply with recent changes to AR 230-2.

PERSONNEL:

MAJ Thomas R. Chapman was assigned as Chief, NAFSC on 8 Sep 70.

DIRECTORATE OF PLANS, TRAINING AND SECURITY

PERSONNEL

The following changes of Director of DPTSEC took place in CY 1970:

- (1) LTC William Denend from COL Crawford Buchanan.
- (2) COL George C. Connor from LTC William Denend.
- (3) LTC James W. Jay from COL George C. Connor.
- (4) COL Harold T. Smith from LTC James W. Jay.

PLANS AND OPERATIONS DIVISION

OPERATION BRANCH

ACCOMPLISHMENTS

Mid-air collisions experienced in the Fort Rucker area from July 1966 to January 1968 represented an overall loss of 16 lives and 13 aircraft. As a result of these losses, US Army Electronic Command published a request for a proposal for a proximity warning device. The evaluation was completed with Honeywell Aerospace System's unit being the most favorable. DPTSEC appointed CPT Lee W. Journey of Operations as Contracting Representative to Honeywell. Fort Rucker purchased 222 of Honeywell's proximity warning devices with the necessary test and support equipment on 30 June 1969. The PWD is a warning device (visual and aural) to alert the pilot that another aircraft is in his vicinity and he should maneuver to locate the intruder visually. It is a dependent system; therefore, both aircraft must be equipped with a PWD. Fort Rucker recently purchased 63 additional units to equip the entire TH-13T fleet. Research and development of anti-collision devices is widespread; however, the US Army was the first to have an operational device capable of aiding the pilot in detecting intruding aircraft.

During the reported period, DPTSEC Operations coordinated 7 fly overs, 29 static displays, and approximately 240 on post and off post band concerts. All retirement and awards ceremonies for calendar year 1970 were coordinated by DPTSEC Operations. Two of the more outstanding retirement ceremonies coordinated by Operations were for MG Oden and COL Bill G. Smith. Operations was also responsible for the static displays at Longstreet Range, the Officer's Club, and the Division Theater for the AUSA Symposium which involved several secret briefings, presentations, pieces of equipment and documents.

DPTSEC Operations coordinated for the recovery of a Navy helicopter which crashed in the Troy, Alabama area. The mission was to sling load the downed helicopter to Pensacola, Florida. A CH-47 was utilized for the mission.

PLANS BRANCH

ACCOMPLISHMENTS

The following mission plans were instituted in CY 70:

USAAVNC/S Military Assistance to Civil Authorities Plan (MACAP) dated 12 Jan 70, was published to provide guidance and restrictions for the utilization of Fort Rucker's

resources in support of civil authorities during civil disturbance, natural disasters, civil defense emergencies and search and rescue operations.

USAAVNC/S Civil Disturbance Plan (GARDEN PLOT). This classified plan was published on 13 Jan 70 in support of higher headquarters requirements and USAAVNC/S internal security plans. This plan provides for USAAVNC/S participation in DA directed operations, aviation support, logistic support and increased internal security of Fort Rucker facilities.

On 25 Feb 70 the 108th QM CO (Petrol Sup) (Fwd) was added to the USARSTRIKE Troop. Implementing instructions for Third US Army Deployment Instruction letters are published for the ARSTRIKE units (108th QMCO and 416th TC CO) and REFORGER units (83d Engr Bn and 427th MD CO).

On 24 Mar 70 in anticipation of a national postal strike a courier reported to Third US Army Emergency Operations Center to be briefed on a classified DA plan to support US Mail Service with military resources. The implementation of this plan did not require employment of USAAVNC/S resources.

Bomb threats and protests in advance of Armed Forces Day activities resulted in the publication of USAAVNC/S OPORD 5-70 (U) to increase internal security of Fort Rucker facilities. The USAAVNC/S EOC was activated during the period 15-17 May 1970 and an after action report dated 11 Jun 70 provides details of this operation.

A letter of instruction was prepared in June 1970 for use in the event military assumption of flight contract services becomes necessary. Following termination of this contract in July, this LOI was implemented and a comprehensive study for the continuation of flight training was forwarded to higher headquarters on 18 Aug 70. This study superseded USAAVNC/S OPLAN Rotational Base Army Aviation (ROBAA) and investigated alternatives to the interim flight instruction in progress by a military/DAC organization. This operation was terminated in Jan 71 when flight instruction was again conducted by contract services.

The USAAVNC/S Emergency Operations Center was activated during "Hurricane Becky", 21-22 July 1970. Aircraft were evacuated from outlying fields to Fort Rucker, and flight training was cancelled for one day. Military assistance to civil authorities was anticipated but not required.

On 18 Sep 70 this headquarters forwarded through HQ TUSA to HQ CONARC, six separate but inter-related Case Study and Justification Folders (CS&JF) for installation and activity consolidation, realignment, reduction and closure package for the aviation training base (Fort Rucker, Fort Wolters and Hunter/Stewart). The CS&JF is a prescribed format that will be used for all future realignment/base closure actions. This initial CS&JF was prepared for student loads provided by USCONARC and subsequent events changes training loads and required the CS&JF to be recomputed under a revised format.

Annex D, USAAVNC/S Military Assistance to Civil Authorities Plan was executed during the period 9-15 Oct 70 for the purpose of locating a missing T-42 aircraft in the local flying area. During this operation 2,403 sorties were flown and a combined total of 18,000 square miles were searched. An analysis of this operation concluded in the recommendations that future operations be conducted from the USAAVNC/S Emergency Operations Center and this plan be rehearsed by conducting a semi-annual CPX. A detailed after action report was submitted on 19 Nov 70.

Headquarters Third US Army directed Company D, 83d Engr Bn and attached personnel from Company A, 83d Engr Bn to relocate to Fort McClellan, Alabama, PCS effective 1 Jan 71.

The advance party departed this installation 8 Dec 70 and the main body movement departed on 6 Jan 71. Third US Army General Order 332, dated 8 Dec 70, directs that liaison, as pertains to training and execution of the battalion REFORGER mission will be maintained by CO, 83d Engr Bn and upon deployment all elements revert to the operational command of CO, 83d Engr Bn. This movement terminates the TDY requirement of "TF Charlie, 83d Engineer Battalion," at Fort McClellan.

During the period 25-30 Oct 70 nineteen personnel from 53d Avn Bn, 123 Ord Det, and 183d Chemical Platoon (Fort Benning) participated in a Nuclear Emergency Team Exercise (NATEX) at Sandia Base, New Mexico. This Field Training Exercise is in support of Nuclear Accident/Incident Control Plan (NAICP) and satisfied a quarterly test requirement normally conducted at Fort Rucker.

The following training was prescribed in support of OPLANS:

On 14 March 1970 and 12 September 1970 this headquarters conducted a field training exercise to test the Nuclear, Chemical, Biological Accident/Incident Control Plans.

The Chemical-Biological-Radiological Element (CBRE) was trained for 2 hours every other week and participated in NORAD Exercise FAIR PLAY 70 on 22 Apr 70. The CBRE reported simulated nuclear detonations to NORAD, Fort Benning, and HQ Third US Army.

FORCE DEVELOPMENTS DIVISION

ORGANIZATION

The division was formed 1 July 1970 by higher headquarters directives to accomplish the Army Authorization Document System functions for the installation. These include structure planning, manpower control and TDA/TOE documents actions.

PERSONNEL

Chief, Force Development Division:	1 Jul - 31 Dec	Major Wayne T. Boles
Chief, Manpower Branch:	1 Jul - 31 Dec	DAC Benjamin H. Zorn
Chief, Force Structure Branch:	1 Jul - 31 Aug 1 Sep - 31 Dec	Captain John H. Barfield Major Harry R. Culp
Acting Chief, Documents Branch:	1 Jul - 31 Dec	DAC Ella R. Gatlin

ACCOMPLISHMENTS

On 1 August the USAAVNC and Fort Rucker were reorganized under a directorate staff in accordance with AR 10-10 and the CONUS Installation Management Study (CIMS). This reorganization included the standardization of titles and realignment of certain functions.

From July through December a number of major actions have transpired in preparation for projected military cutbacks. These have included some civilian reductions in force, a civilian hire freeze and a number of classified planning actions - one of which was a Case Study and Justification Folder requested by CONARC on Installation and Activity Consolidation, Realignment, Reduction and Closure. Many of the requirements for this study were completed in December 1970, even though it will be submitted in January 1971.

Although the civilian reductions in force were much less than anticipated, some realignment of personnel was necessary to insure proper mission accomplishment by all activities. For example, typing surveys were conducted in both USAAVNC and USAAVNS to determine typing capabilities and make recommendations to the command group. Some personnel realignments were effected. A recurring military administration/typing OJT program will commence in January 1971 to maintain accomplishment in the various USAAVNC/S activities.

A total of 13 TOE/MTOE actions have been accomplished from 1 July through 31 December. Most of these have been realignment to G-series TOE/MTOE. In addition to the CIMS TDA submission for USAAVNC and Fort Rucker, new USAAVNS and MEDDAC TDA's have been implemented. Documents Branch began a continuing detailed review of the equipment sections of all TDA's in September.

TRAINING DIVISION

ACCOMPLISHMENTS

The following units conducted annual training for reserve component on the dates indicated:

<u>UNIT</u>	<u>DATE</u>	<u>PERSONNEL</u>
2020 Weather Flt (SA) (Mass ANG)	30 May-13 June	7
3343 USA Hospital (Mobile, Ala)	6-20 Jun	103
323 Medical Detachment (Memphis, Tenn)	13-27 Jun	5
380 Medical Detachment Dental (Memphis, Tenn)	20 Jun-4 Jul	100
129 Medical Hospital (Surg) (Memphis, Tenn)	11-25 Jul	206
302 Aviation Company (ATC) (First US Army)	25 Jul-8 Aug	104
125 MP Co (Ala ARNG)	25 Jul-8 Aug	104
935 QM Detachment (Petrol Lab) (4th US Army)	15-29 Aug	8
Composite Detachment Aircraft Mechs (Ala ARNG)	15-29 Aug	<u>31</u>
TOTAL		668

DPTSEC Training Division coordinated logistical and administrative support for the Corps FOC Section of the 72nd Avn Co (AT) participation in Joint Chief of Staff Exercises BOLDSHOT/BRIMFIRE 6-70 and 2-71. Support was also rendered this unit when it took part in the 82nd Abn Div FTX Cabal Assault.

During CY 70 233 installation personnel graduated from 19 service schools, with approximately 2785 personnel graduating from on-post OJT/AIT programs.

Range and maneuver areas were provided to eight USAR/ARNG Battalions and four separate companies or smaller unit for RSOP, AIT, ATP or Annual Weapons Qualification Training. Two new artillery firing points were constructed to support 155 Howitzer Firing.

Complying with CONARC Regulation 190-7 Mandatory Drug Abuse Training was initiated in June 1970. Drug Abuse Training is given quarterly, alternating between the medical and legal aspects. Each individual is required to attend one hour of each phase annually.

Staff supervision was provided the 427 Medical Company (AMBL) when they participated in REFORGER II Exercises in Europe. The unit left Fort Rucker on 5 Oct 70 and returned to CONUS on 9 Nov 70.

DPTSEC Training Division conducted ATTS for the following units:

<u>UNIT</u>	<u>DATE</u>	<u>RATING</u>
427 Med Co (AMOL)	24-28 Sep 70	Satisfactory
416 Tran Co (DMD TRK PETRL)	27-29 Jul 70	Satisfactory
108 QM Co (PETRL SUP) (FWD)	27-29 Jul 70	Satisfactory
83d Engr Bn (Const)	8-13 Jun 70	Excellent

ARMY AVIATION MUSEUM

PERSONNEL

Mr. William A. Howell - Curator

ACCOMPLISHMENTS

240,000 persons visited the Museum in calendar year 1970, the second year of operation in its present location. 231 groups consisting of public school children, college students, Head Start, orphanages, military and civilian VIP's, Civic clubs, and other organizations visited the Museum on tours conducted by Museum personnel.

Some 338 items of historical properties were donated or transferred to the Museum during this period. These items ranged from small personal items to complete aircraft. Among the major acquisitions during the year were:

____ The "Bataan," a C-121A Lockheed Constellation airplane transferred to the Museum from the Goddard Space Flight Center, Baltimore, Maryland, 10 March 1970 through the General Services Administration. This airplane is of historical significance since it was General MacArthur's airborne Command Post during the Korean War.

____ A CH-37B "Mojave" helicopter was transferred to the Museum by AVSCOM in November.

____ An AH-1G Huey Cobra was transferred to the Museum by the Army Material Command in November.

____ Two machine guns, Chicom 12.7mm and 7.62mm were transferred to the Museum by the 1st Aviation Brigade, Vietnam.

____ Painting, Medal of Honor winner SP4 Gary Wetzel. Painting was done by CW2 Chester Jezierski, who was present at the presentation ceremony made by Colonel Hemmingway, Officer Director of Army Aviation, Department of the Army.

____ Painting, TET Offensive 1968, Vietnam was donated to the Museum by Major Max A. Davison, 604th Trans Co (DS) Vietnam. The artist was Miss Thi Minh-Thu, a Vietnamese civilian.

____ Photographs in color of President Kennedy and daughter Caroline with "Army One" at Hyannis Port, Mass, and President and Mrs. Kennedy departing "Army One" helicopter, donated to the Museum by the Executive Flight Detachment, Washington.

Mrs. Douglas MacArthur, widow of the late General of the Army, Douglas MacArthur, visited the Museum and the "Bataan" on 15 May 70. The "Bataan" was opened to the public 16 May.

Mr. Grover Loening, one of the earliest aeronautical engineers and pioneer aircraft builders visited the Museum 19 August 1970.

The 28th anniversary of Army aviation was celebrated 6 June 1970. The celebration, in addition to open house at the Museum, included a Bar-B-Q, a display of current Army aircraft and a tactical air demonstration provided by the Department of Tactics. This event was sponsored by the local Quad-A Chapter.

The Army Aviation Museum Association, Inc., was established during the year by a group of local prominent civilians for the purpose of raising funds to construct a new museum facility. In addition to increasing Museum publicity the Association is operating a small souvenir shop in the Museum lobby. This souvenir shop provides a shopping facility on the Post for non-military personnel who can not patronize other post facilities.

The Museum public relations program was increased during the year. The Curator has appeared on a fifteen minute TV program and in TV news films and tapes have been made for local radio stations. The PAO prepared and submitted numerous newspaper releases with photographs to the media on special events and new acquisitions, directing public attention to the Museum.



**Mrs. Douglas MacArthur Visits
U. S. Army Aviation Museum**



THE "BATAAN" - GEN MACARTHUR'S AIRBORNE COMMAND POST DURING KOREAN WAR.



THREE OF THE MANY DIFFERENT TYPE AIRCRAFT ON DISPLAY AT THE ARMY AVIATION MUSEUM.

DIRECTOR OF AIRFIELD OPERATIONS

MISSION

Airfield Operations primary mission is to provide air traffic control service and facilities within the Fort Rucker training area in support of USAAVNC/S flying training.

ORGANIZATION

Airfield Operations is comprised of five base field divisions, one stagefield division and one AITD division.

PERSONNEL

Airfield Operations experienced a personnel turnover rate of 70% during the year. Authorized strength is as follows: Officers 17, Enlisted 509, Civilian, 78, for a total of 604 assigned personnel.

The following personnel changes were effected throughout the various divisions of Airfield Operations during CY 70:

On 9 August, LTC Loyce E. Mabrey was reassigned from Director, Airfield Operations to Deputy Director of Instruction.

On 10 August, LTC McCranie was assigned as Director, Airfield Operations.

On 26 August, LTC McCranie was reassigned to DIO.

On 27 August, LTC Floyd J. Tiemann was assigned Director, Airfield Operations.

On 27 August, LTC Shaw was assigned Deputy Director, Airfield Operations.

ACCOMPLISHMENTS

The three advanced instrument area training radar centers were completed and operational. This enhances flying safety in a very complex and confined training airway structure.

The permanent Hub Control facility is approximately 80% complete and should be fully operational by 4th quarter FY 71.

AN/TSQ-70A-T1 aircraft control centrals were received during the year. Eight control centrals have replaced substandard control towers at certain stagefields and provide sufficient communications equipment to adequately support the USAAVNS training mission and promote a safer flying environment in the congested training areas.

ADVANCED INSTRUMENT TRAINING DIVISION

ORGANIZATION - Provisional

The AIT Division was formed in July 1970 using the old Instrument Training Branch as a nucleus. The Division is provisionally staffed to accomplish all local orientation flights, TH-13T and T-41 transition or requalification training and instrument rating renewals for newly assigned aviators not to be further assigned to a flight training department. In addition, it provides instrument refresher training and administers the annual written examination to aviators assigned to Fort Rucker. It also provides supervisory control for the C-47 Branch.

CAIRNS OPERATIONS DIVISION

The traffic count for the year totaled 473,818. This total includes 311,562 Cairns tower operations plus 162,256 ARAC operations. The C-47 Branch of Cairns Operations Division was transferred to the Aircraft and Instrument Training Division effective 1 July 1970. A total of 940 VIP's arrived and departed Cairns Army Airfield during the year.

During the period 9 October through 15 October, what is believed to be the largest Air and Ground Search for a lost aircraft in history was conducted in the Fort Rucker training area by Center/School aircraft. The search command post was established at Cairns Army Airfield. This operation involved a total of 7,082 military flight hours, 2403 sorties, covering 18,000 square miles flown.

ARAC

Cairns Army Radar Approach Control maintained its position as the 3rd busiest radar facility in the Southeast during CY 70. ARAC's instrument operations count of 162,256 is exceeded only the FAA's Atlanta and Miami facilities.

Continual study into the problem of providing improved services in the high traffic density of the Fort Rucker flying area has resulted in new methods and procedures. Chief among these has been the change to computer compatible flight plans. Additionally, all instrument approach procedures and Standard Instrument Departures were revised and updated during the year.

STAGEFIELD SUPPORT DIVISION

Stagefield Support Division operated 14 stagefields and 5 aerial gunnery ranges during the year resulting in a total of 4,740,000 VFR traffic movements.

A program was initiated by Stagefield Support Division to FAA certify and facility rate ATC controllers at all stagefields. FAA approved air traffic control service was implemented at all contact stagefields during June. The AN/TSQ-70A-T1 tower cabs provide sufficient communications equipment to satisfactorily provide this service by additional frequencies and division of ATC control of traffic patterns, thereby reducing single frequency congestion.

KNOX OPERATIONS DIVISION

Knox AHP ended the period 1 January 1970 to 30 November 1970 with a traffic count of 52,021. In October, Knox Operations turned Hatch Stagefield over to Stagefield Support. The traffic count at Hatch from 1 January 1970 to 22 October 1970 was 500,589.

HANCHEY OPERATIONS DIVISION

Hanchey Operations air traffic count for calendar year 1970 was 350,056. This was an increase of approximately 56,000 over calendar year 1969. The increase in operations reflects the efficiency gained in departure and arrival route structure to the training areas associated with the aviation training departments on Hanchey Heliport.

During this reporting period, the 83rd Engineers cleared all landing areas in the approach corridors. Hanchey received 138 TH-13T aircraft from Hunter Army Airfield and transferred the remaining 3 CH-37's to Fort Hauchuca, Arizona. This makes a grand total of 195 aircraft assigned to Hanchey Field.

LOWE OPERATIONS DIVISION

Lowe AHP recorded 230,811 operations during this reporting period, an increase of 12,000 over 1969. This increase is a result of additional aircraft assigned to the training department on Lowe Field and transition training conducted in the LOH-58.

Helicopter flight training was given to a total of 18 VIP during this time. The most notable of these personnel were General Westmoreland, Chief of Staff, U.S. Army, and Major General Flanagan, Commanding General, Kennedy Special Warfare Center, Fort Bragg, North Carolina.

FACILITIES DIVISION

During the year, planning and installation was completed on three proposed radar sites in the advanced instrument training area. Implementation of air traffic control service at these sites relieved cramped working conditions at the GCA sites conducting dual services for center and GCA service on single radar units. Relocation of the center operations provided dual scope operation and additional work area to conduct ATC controller training.

TUSA TRAINING AID CENTER

MISSION

The following mission statement appeared in USAAVNC Reg 10-1 (Organization & Functions):

Operate a Training Aid Center. Produce, procure, maintain, and issue training aids in support of the US Army Aviation training program, USAAVNC units, and tenant and satellite activities.

Provide technical assistance in the preparation of Training Device Requirements.

Recommend adoption and distribution of aids considered appropriate for worldwide distribution.

Provide technical representation to the USAAVNS Training Aids and Devices Board.

ORGANIZATION

During CY 1970, the provisions of a new Army Regulation pertaining to training aids was implemented. The regulation was numbered AR 71-7 and titled Military Training Aids and Army Training Aid Center System. Supplements to this regulation were published by Headquarters, CONARC, Third US Army, and US Army Aviation Center.

As a result of these regulations, all the personnel and equipment of the Fort Rucker Training Aid Center were transferred on paper to Headquarters, Third US Army, and this Training Aid Center appeared as paragraph 8 of TDA 3AW27TAA00. Operational control of the Training Aid Center was given to the installation commander. Administrative control of Training Aid Centers in the Third US Army area is under the Training Aids Management Office, Directorate of Plans and Training, Headquarters, Third US Army. Training Aid Centers were later standardized as equivalent divisional elements of the installation Directorate for Plans and Training with priority support to be given to schools and training centers.

An area support assignment was given to this Training Aid Center encompassing the southern half of the states of Alabama and Mississippi and 14 counties in the state of Florida. In addition to support of on post units, training aid support for all off post Active Army, ROCT, Reserve Forces, and National Guard units within this area was satellited on this Training Aid Center.

All training devices formerly appearing on the USAAVNS TDA were transferred to the Training Aid Center System TDA.

PERSONNEL

As of 31 December 1970, strength figures were as follows:

	<u>Officer</u>	<u>Enlisted</u>	<u>DAC</u>
Recognized	1	14	38
Authorized	1	7	28
Assigned	1	12	27

MAJ Charles H. Jacobson remained throughout the year as Director of the Third US Army Training Aid Center.

ACCOMPLISHMENTS

The Training Aid Center planned, designed, and fabricated a number of relatively complex training devices during 1970 which resulted in time and money savings for the government when compared to industry costs for similar items. Examples of trainers fabricated during 1970 are:

FR-D-613 Omni and RMI/ADF Mock-up, mounted on metal stand (12 units).

FR-D-716 MB4 Computer Mock-up, mounted on metal stand (10 units).

FR-D-811 UH-1 Cockpit Procedures Trainer.

FR-D-838 Console, Student Training, Enroute/Approach, Air Traffic Control (20 units and two (2) each Lecterns with similar equipment).

FR-D-882 Radar Antenna, AN/TPX-44, Manually Operated, 1/3 scale.

FR-D-892 Light Assembly Packet for Night Vision Trainer.

FR-D-898 ILS/VOR Remote Control, Prototype (3 each).

FR-D-899 CH-47 Engine Transmissibn Cutaway on metal stand.

FR-D-941 CH-47 Forward Swashplate Assembly, mounted on metal stand.

FR-D-944 UH-1H Engine Instrument and Master Caution Panel Trainer.

FR-D-947 Audio Visual Instructional Display (a complex automatic device telling the US Army Aviation Center Team story).

New devices received and/or accepted and assigned to the Training Aid Center during 1970 are as follows:

Device 2C9, OV-1 Cockpit Procedures Trainer used by the Dept of Advanced Fixed Wing Training was returned on 13 March following overhaul and update by Trainer Corporation of America. A 40 hour operator and maintenance course was conducted for Fixed Wing personnel by the contractor. On 7 April, a CH-47 Hydraulic System Trainer, procured by AVSCOM from Boeing-Vertol, was delivered. The trainer, funded by USAAVNS, was obtained for used by the Dept of Maitenance Training. On 2 October, the first two student stations and the computer for the Radar Operator Training Complex, Device 15G16, arrived at Fort Rucker. Two more student stations arrived in early November. The contractor conducted operator training course started on 7 December. In the last week of December 1970, the developmental model of the Synthetic Flight Training System (SFTS), Device 2B24, was brought to Fort Rucker; and its assembly was started. Its temporary location will be in building 6031, near the museum. The new building that will eventually be used as permanent housing for the SFTS is under construction at the corner of fourth avenue and 17th street.

A comprehensive catalog of training aids was published in May of 1970 culminating seven months of research and printing. This was the first catalog of training aids ever published by the Training Aid Center. The catalog was titled "US Army Aviation Center Pamphlet 310-12, Index of Army Training Aids Center, Fort Rucker, Alabama." The pamphlet was 375 pages in length and was well-received by all agencies. The Training Aids Management Officer at Headquarters, Third US Army, stated that it would be used as a model for other Training Aid Centers. Numerous requests were received by aviation units throughout the world for graphic items and devices appearing in this pamphlet.

Effective training aid support was rendered during CY 1970. Two thousand five hundred and eighty-five work requests were processed amounting to 58,196 graphic items fabricated, 3,564 device items fabricated, and 1,024 training devices repaired.

DIRECTORATE OF INDUSTRIAL OPERATIONS

ORGANIZATION:

The CONUS Installation Management Study (CIMS) established a Directorate of Industrial Operations consisting of an Administrative and Management Branch and 7 divisions on 1 August 1970. Divisions are:

- a. Housing Division.
- b. Plans & Operations Division.
- c. Services Division.
- d. Transportation Division.
- e. Maintenance Division.
- f. Supply Division.
- g. Procurement Division.

PERSONNEL:

The following military personnel assignments were made:

MAJ Albert J. Rivard, Chief, Procurement Division, effective 25 August.

LTC Asa C. McCranie, Chief, Housing Division, effective 28 August.

MAJ Bobby R. Roughton, Chief, Services Division, effective 28 September.

MAJ Willard M. Onellion, Jr., Chief, Plans & Operations Division, effective 26 September.

MAJ Marion E. Beaumont, Chief, Maintenance Division, effective 8 September.

MAJ Troy Reeves, Jr., Chief, Services Division, effective 24 November.

HOUSING DIVISION

ACCOMPLISHMENTS:

Off-Post Housing Referral has 7,364 rental units listed for rent on a nondiscriminatory basis. This is an increase of 1,202 from 1969.

The assignment policy for family quarters was changed on 8 July 1970 at the direction of DA from assignments based on rank and date of application to assignments based on grade category, date of application, and bedroom requirements.

Rental rates for Fort Rucker family quarters were surveyed by the Mobile District of the Corps of Engineers 31 August 1970 which resulted in an increase in all units. The total inventory of family quarters now stands at 1545.

There are 440 adequate BOQ units and 59 inadequate BOQ units available at Fort Rucker.

On 28 September 1970, the Guest House acquired two cottages on 7th Avenue (Bldgs 8915 and 8916) from the NCO Club. They were renovated for use as guest house accommodations for large families.

Portable television sets were purchased by the BOQ fund on 5 November 1970. These sets are made available to occupants of BOQ's on a rental basis.

A revised BOQ assignment policy was published 7 December 1970 which authorized all permanent party bachelor officers to reside off post and receive BAQ if they so desire. Unaccompanied permanent party officer personnel may occupy permanent BOQ space only, if approved by this headquarters; otherwise, he may occupy temporary BOQ space.

PROCUREMENT DIVISION

ACCOMPLISHMENTS:

The Procurement Division monitored the following programs and contracts:

Contract DABCOL-69-C-0003, Page Aircraft Maintenance, Inc:

Modification 38 extended contract through FY 71. The modification was approved by Third US Army after negotiations. The total estimated operational costs negotiated were \$39,855,825.00, less fee.

This being the last exercise of option permitted by the contract, a Board of Award was convened by LO #1285, dated 21 September 1970. The board convened on 8 October 1970, and assignments to members were made by the president. These assignments set forth the requirements for Request for Proposal DABCOL-71-R-0025 which will be the basic instrument for award of an aircraft maintenance contract for FY 72.

Presolicitation letters were forwarded to 50 firms selected from a bidders' list and the World Aviation Directory's latest issue. The Business Commerce Daily synopsised the procurement, and, to date, 35 bidsets have been requested and mailed. A pre-bid conference was held 14-16 December at Fort Rucker and 18 December at Fort Stewart.

Contract DABCOL-70-C-0023, Industrial Maintenance Services, Inc.

Authority to continue contract performance of guard services at Fort Rucker for FY 71 was not received until 23 June 1970. Sufficient lead time was not available to prepare invitation for bids submission to interested bidders, receive bids, evaluate bids, and to allow contractor sufficient time after award to acquire required equipment to begin service by 1 July 1970. Contract DABCOL-70-C-0023 contained an "option to extend the term of the contract" provision. The contractor agreed to extension of the contract incorporating a new wage determination at the original price of \$757,350.00.

Contract was modified to cover security at Hatch Stagefield through 31 October 1970. By letter, 9 November 1970, the contractor furnished Procurement Division a copy of their union agreement with the International Union, United Plant Guard Workers of America, and its affiliated Local 600 which was signed 30 September 1970.

Contract DABCOL-71-C-0132, Honeywell, Inc:

Contract DABCOL-71-C-0132 was negotiated with Honeywell, Inc. 4 December 1970 for 63 proximity warning systems in total amount of \$249,693.00. This is a follow-on procurement to complete installation of PWD's on entire fleet of TH-13 aircraft. These systems are a portion of the option to buy, which was not exercised, of the original contract.

Contract DABCOL-71-C-0003, Embry-Riddle Aeronautical Institute:

Contract DABCOL-71-C-0003 was awarded 1 July 1970 covering rotary wing instrument training and instrument phase fixed wing training for FY 71 in total amount of \$4,038,341.00.

Cure notice was issued on 16 July 1970 and contractor notified of termination on 27 July 1970 due to contractor's failure to provide sufficient personnel to accomplish contract flight training requirements. Flight training has been performed by Army personnel from termination date.

RFP's were reissued and contract DABCO1-71-C-0151 awarded to Doss Aviation, Inc. covering rotary wing instrument training in the amount of \$595,784.36 for performance to begin 4 January 1971 through 30 June 1971, and contract DABCO1-71-C-0152 awarded to Hawthorne Aviation, Inc. covering fixed wing instrument training in the amount of \$226,291.00 for performance to begin 4 January 1971 through 30 June 1971.

Contract DABCO1-71-C-0004, Doss Aviation, Inc:

Contract DABCO1-71-C-0004 was awarded 1 July 1970 covering primary fixed wing training at Fort Stewart, Georgia for FY 71 in total amount of \$681,052.00. Notice of termination was issued 20 October 1970 effective on a phased basis with complete phase-out on 31 December 1970.

SERVICES DIVISION

ACCOMPLISHMENTS:

The Laundry and Dry Cleaning Branch presently is utilizing local laundry facilities for contractual requirements. The quartermaster laundry at Fort Benning provides laundry service to installation military personnel. Laundry and dry cleaning services required represent an expenditure of O&MA funds averaging \$23,000 per month. In order to provide a more economical service to military personnel, activation of an Army laundry began on 2 October 1970 with the rehabilitation of Bldg 1012 at a cost of approximately \$180,000.

To assure availability of adequate and acceptable meals to garrison troops, the Food Service Branch coordinated and assisted in the consolidation of all installation messes. This consolidation was accomplished in December 1970 as the smaller unit messes moved into larger buildings. These moves made available two cafeteria serving lines in each mess. Decreasing the number of messes in operation reduced the personnel required for operation of installation messes. Four Fort Rucker messes, assisted by the Food Service Branch, received outstanding on the annual Third Army Food Service visit 13-15 October. The central meat processing facility processed an average of 108,000 pounds of meat and rendered 32,000 pounds of fat per month for distribution to the garrison messes. The Ration Distribution Section requisitioned, received, and issued an average of 3,920 rations per day to the garrison messes.

During calendar year 1970, 48 military and 14 dependent deaths were handled by the post mortuary function of Services Division.

During calendar year 1970, the Commissary Resale Store increased its primary mission by 20.5% in serving Fort Rucker military personnel with subsistence requirements. Total sales without surcharge during this period were \$10,977,943.00.

TRANSPORTATION DIVISION

ACCOMPLISHMENTS:

Travel arrangements for the Christmas-New Year holiday leave period were made for 1,577 personnel. Increased travel by commercial means during this period resulted in use of 13 aircraft and 13 buses over the number normally required.

PLANS & OPERATIONS DIVISION

ACCOMPLISHMENTS:

Plans & Operations Division was assigned Bldg 6612. Personnel were reassigned from other DIO activities, and activities were consolidated beginning 17 September 1970.

The Maintenance Assistance Branch accomplished the following inspections during 1970:

a. Roadside spot check inspections	193
b. IG assistance inspections	15
c. Installation maintenance management inspections	7
d. Maintenance assistance inspections	<u>57</u>
Total -	272

The Supply Assistance Branch performed the following inspections during 1970:

a. Command inspections	36
b. Courtesy inspections	<u>18</u>
Total -	54

This activity also processed 336 reports of survey and three unit supply courses were given with 73 personnel successfully completing them during 1970.

DIRECTORATE OF COMMUNICATIONS-ELECTRONICS

Organization: AC of S, C-E was redesignated DC-E effective 1 July 1970. This change was a result of the CONUS Installation Management Study (CIMS).

AUDIO VISUAL SUPPORT CENTER

Accomplishments:

During a 12 month period ending 30 November 1970, the Audio Visual Support Center has loaned a total of 2,981 unclassified training, information or miscellaneous films to various civic, educational activities and hospitals located in northwest Florida, Alabama, and southern Mississippi. These films were shown a total of 6,120 times. These activities include 26 different educational institutions, 53 ROTC units, 13 civic groups and three hospitals. A total of 104,335 persons attended the showing of these films.

To the military units located on Fort Rucker the AVSC loaned a total of 37,880 films that were shown to 1,792,082 persons. In support of these films, 16,100 pieces of audio visual equipment were loaned.

PHOTOGRAPHIC BRANCH

Accomplishments:

The Center Photo Lab produced 648,653 negative equivalents during 1970. Work was accomplished without backlog and served the USAAVNC/S and tenant activities with all known requirements.

NAVIGATIONAL FACILITIES

Accomplishments:

During the first quarter CY 70, equipment at six GCA sites within the advanced instrument area was transferred from temporary wooden buildings to newly constructed air conditioned aluminum buildings. This move increased the efficiency of operating personnel and equipment required to meet air traffic control training requirements.

Three AN/TPN-18 radars and associated communications equipment were installed at Elamville, Alabama, Columbia, Alabama, and Campbellton, Florida.

During the third quarter CY 70 an additional AN/FPN-40 radar was installed at Troy, Alabama Airport. This second radar operates in the surveillance mode and increases the traffic handling capabilities of that facility. It was commissioned by the Federal Aviation Agency September 1970.

Console and associated radio equipment were installed in Knox AHP tower and provided FM, VHF, and UHF communications capabilities.

Cairns AAF tower was completely rehabilitated to include new console, cabling, and radio equipment to provide improved communications capabilities.

TELECOMMUNICATIONS CENTER OPERATIONS

Accomplishments:

On 1 January 1970 the AG message processing function was consolidated with the Communications Center under the single management of the DC-E and operated by the Telecommunications Center. Consolidation of these functions was accomplished to increase

operational effectiveness of electrical communications services and to expedite on-post distribution of data and narrative messages.

On 30 April 1970 the installation of an Automatic Secure Voice Communications Network (AUTOSEVOCOM) facility was completed. This facility is operated by the Telecommunications Center and provides the Command and Staff Elements of USAAVNC/S as well as Class II activities a world-wide secure voice communications system authorized for use up to and including Top Secret.

TELEPHONE OPERATIONS AND MAINTENANCE

Accomplishments:

During the third quarter CY 70 installation was completed on the 600 line addition to the central office. Cutover to direct dial AUTOVON was completed during third quarter CY 70.

Direct in-out dialing between Fort Rucker-Enterprise and Fort Rucker-Ozark was established.

On 21 June 1970 GT&E Company opened the second pay station center on post located in building 9003. The two centers now total 75 booths with the 77 individual pay phones located throughout the post. Commercial telephone service for the troop population has been greatly improved.

TELEVISION FACILITIES

Accomplishments:

During the first quarter 70 the weathervision and educational television (ETV) facilities were integrated at Hanchey Army Heliport.

Installation of the TV distribution system in the new student dormitories (buildings 5910 and 5921) was completed during third quarter CY 70.

A TV camera was installed on the weather radar scope located at the Air Force Weather Facility at Cairns AAF. An actual radar picture of cloud and storm coverage can now be transmitted over Channel 5 and 6, greatly assisting the weather forecaster in presenting the weather situation to flights and/or individuals.

During the second quarter CY 70 the distribution system for weather TV and education TV was completed at Knox AHP.

OFFICE OF THE COMPTROLLER

AUDITS AND REVIEWS

1. United States Accounting Office Activity.

a. Representatives of the USGAO visited this installation in March 1970 to gather data relating to a DA proposal to phase out motion picture production at the Army Pictorial Center, Long Island City, New York. The DOI served as project officer for the visit and provided information that video tapes produced by the USAAVNS are more responsive to USAAVNS training needs, but APC movie films are more desirable if color and animation are required. USGAO did not issue a report of this visit to this Headquarters. The required report of exit conference was dispatched in March 1970.

b. In July 1970, the USGAO completed a review of temporary lodging costs for TDY student officers undergoing flight training at this installation. The USGAO was specifically interested in actions taken on their previous report to reduce TDY lodging costs. Actions that had been taken included: (1) a reduction by DA of per diem rates for students attending courses in excess of 60 days; (2) a change in Fort Rucker's BOQ assignment policy granting permanently assigned bachelor officers the option of occupying BOQ's or residing off-post, thus permitting assignment of BOQ spaces vacated to TDY officers whose TDY lodging cost is greater than the cost of BAQ paid permanent party officers who elect to reside off-post; and (3) the negotiation of a contract to construct 140 additional adequate quarters. The USGAO did not issue a report of this visit to this Headquarters. The required report of exit conference was dispatched in August 1970.

2. Audits and Visits by USAAA and Higher Headquarters.

a. The USAAA completed an audit of the Noncommissioned Officers' Open Mess (NCOOM) during the period 7 September through 27 October 1970. This was the Agency's first open mess audit at Fort Rucker, and included a review and appraisal of mess management, internal controls, and relationship with the Nonappropriated Fund Service Center (NAFSC). The USAAA issued a special report of audit concerning operations of the NAFSC in October 1970, but did not require a Command reply. The official report of audit of the NCOOM (No. SO 71-303) was received in December 1970. The USAAA did not offer an opinion on the financial statements because certain internal controls were either lacking or ineffective. The official Command reply to the report was dispatched to Headquarters, Third US Army, on 29 December 1970.

3. Cost Analyses Activity (AR 235-5).

a. The comparative cost analyses that were completed in December 1969 to determine whether it would be more economical to accomplish KP/cook functions in-house or by contract were audited by USAAA in January 1970. The USAAA's audit confirmed the installation's position that a contract operation would be more economical. Audited cost analyses were forwarded to DPCA and DIO for appropriate action.

b. Cost analyses of six service-type contracts (custodial, security guard, school bus, aircraft refueling, grass mowing, and flight training services) that were completed in December 1969 were audited by the USAAA in January 1970. Except for the grass mowing and school bus contracts, USAAA's audits indicated that these services were being accomplished more economically by contract. The installation nonconcurred with USAAA's position on the grass mowing and school bus contracts. The analyses, USAAA's audit reports, and installation comments were forwarded to higher headquarters in February 1970.

c. At the direction of DA, cost analyses of the flight training contract were completed by this Headquarters and audited by the USAAA in August 1970. Three analyses were made comparing the cost of conducting flight training by contract to the cost of conducting flight training by contract to the cost of conducting flight training in-house, using in-house staffing of (1) 100% military, (2) 100% DAC, and (3) 90/10 mix. The cost analyses revealed that a contract operation was the more economical method of performing flight training. However, this Headquarters recommended the 90/10 mix due to need of a rotational training base and to avoid disruption of training caused by contractor labor disputes. After review by higher headquarters, instructions were received to negotiate a new flight training contract.

MANAGEMENT

1. Under the auspices of the Comptroller, a text entitled "Financial Management Planning" was written and published to provide distribution to all student aviator personnel containing guidance relevant to savings, investments, insurance, and estate planning.
2. Effective 1 August 1970, the Progress Review and Analysis Division was redesignated the Progress Review and Analysis Branch (PRAB) of the Management Analysis Division, Comptroller, as a result of reorganization under CONUS Installation Management System (CIMS).
3. During June 1970, the Comptroller developed and implemented the Installation Work Measurement Reporting System in support of CONUS Installation Management Study and Management Indicators for Installation Support Activities.
4. Reentitlement and realignment of principal staff offices were formulated in accordance with guidance contained in letter, CONARC, 5 June 1970, subject: CIMS Implementation.

BUDGETING AND FUNDING

1. Various Program Change Proposals (PCP) cost studies were conducted during 1970. Major studies are as follows:

<u>TITLE</u>	<u>ESTIMATED TOTAL FUND RQMS</u> <u>(\$ IN THOUSANDS)</u>	
	<u>FY 71</u>	<u>FY 72</u>
a. Enlisted Maintenance Training (SDB-67H20).	414.6	NA
b. Advanced Level NCO Education Courses for MOS 71P and 93L	NA	47.3
c. Aviation Medicine Basic Course, 6A-3160	305.0	328.4
d. OH-58 Aviator Qualification Course	285.8	NA
e. OH-6 Aviator Qualification Course	492.8	632.8
f. Optimum Instrument Trainer Aircraft Study (Comparison cost of TH-13T, TH-58 and UH-1 for FY 72 and FY 73)	NA	NA

<u>TITLE</u>	ESTIMATED TOTAL FUND RQMS	
	(\$ IN THOUSANDS)	
	<u>FY 71</u>	<u>FY 72</u>
g. Major Revisions and Additions to Present Training Program at USAAVNS	(See study for various courses of action)	
h. Rotary Wing Training for 447 Navy Pilots (Cost Per Student)	NA	NA

2. FY 1970 Budget Actions:

a. Continuous efforts were expended throughout calendar years 1969 and 1970 to obtain necessary funds for support operations during FY 70 which ended 30 June 1970. Reaction to the FY 70 BER (+\$19,535,100) was received in AOB dated 10 March 1970. This and subsequent funding actions resulted in an unfinanced requirement of only \$923,700 as of 30 April 1970 (last FY 70 FMR).

b. The FY 70 BER stated an O&MA fund requirement of \$106,095,000. Actual FY 70 obligations/expenses were \$105,016,200. This represents only a 1% deviation between the BER estimate as of 31 October 1969 and the actual expenditures stated in the FY 70 Prior Year Report as of 30 June 1970.

3. FY 71 Budget Actions:

a. The FY 71 O&MA Command Operating Budget (COB) was handcarried to TUSA 6 March 1970. Total O&MA fund requirements were stated at \$103,615,300. Total dollar guidance was \$93,693,700 for an unfinanced requirement of \$9,921,600. This COB represented fund requirements to support programmed initial entry FW and RW active Army aviator outputs for FY 71 and FY 72 of 4,380.

b. The FY 71 COB was updated 18 March 1970 to support a revised programmed initial entry FW and RW active Army aviator output for FY 71 and FY 72 of 5,081 which generated an additional fund requirement of \$5,108,700 (revised requirement \$108,724,000). (Unfinanced increased accordingly.)

c. The FY 71 COB was further updated in July 1970 reflecting a revised requirement of \$110,806,900. Funding guidance was \$94,823,000 for an unfinanced amount of \$15,983,900. Major cause for increased requirement was the graded civilian pay raise (effective Jan 70) which was not included in the initial COB.

d. The FY 71 Budget Execution Review (BER) was conducted as of 31 October 1970. The review considered the FY 71 funding impact expected to result from directed actions to accomplish the following training missions during FY 72:

<u>TYPE TRAINING</u>	<u>OUTPUTS (GRADUATES)</u>
Initial Entry FW	-0-
Initial Entry RW (TOTAL)	(3,688)
Active Army	2,951
Other	737
Aviator Graduate Courses	4,188
Aircraft Mechanic and Other	<u>10,988</u>
TOTAL	<u>18,864</u>

e. The FY 71 BER revealed an O&MA fund requirement of \$104,345,400. Funds available were \$88,901,200 (includes assumed availability of \$1,223,200 for GS and WB pay raises) leaving an unfinanced requirement of \$15,444,200.

4. The FY 72 Command Budget Estimate (CBE) was forwarded to TUSA and CONARC 26 June 1970 and 1 July 1970, respectively. The CBE was based on initial entry active Army aviator outputs of 3,900 for RW and 700 for FW and stated a total estimated O&MA fund requirement of \$104,014,700.

5. Stringent control and management of overtime and holiday pay has resulted in an orderly decrease in such expenditures. The final FY 70 overtime and holiday pay was \$144,315 as compared to \$191,311 for the prior FY 69. Limitation for FY 71, as of 31 Dec 70, is \$125,750.

FINANCE AND ACCOUNTING

1. In the second quarter, FY 71, the enlisted personnel strength was brought up to normal with a shipment of school trained finance personnel; however, these men are scheduled to leave in the third quarter, FY 71, for overseas assignment. This will leave about 80% of the enlisted personnel on-the-job-trainees. As a whole, it has been found that most of these trainees are doing an outstanding job with the limited training they are receiving.

2. On or about 15 August 1970, the Department of the Army Comptroller directed that all finance and accounting offices furnish the Finance Center information to update the FICA and allotment files in a more timely manner. This system will provide punch cards from the manual vouchers and will be used by the Finance Center to update the US Army's FICA and allotment files.

VISITS AND INSPECTIONS

1. During the period 19 - 23 October 1970, representatives of the DCS, Comptroller, Headquarters, Third US Army, performed a review of the Comptroller functions at this installation. Reports of visit determined the overall operations of the Comptroller organization to be satisfactory.

2. Mr. Eckhard Bennewitz, Deputy Comptroller of the Army, and Major General Autrey F. Maroun, Special Assistant to the Comptroller of the Army, visited Fort Rucker and the Comptroller's Office during the period 2 - 4 December 1970. COL James V. Preuit was appointed as Project Officer for the visit. The purpose of the visit was to discuss Base Operation workload and expenses. The group was attempting to determine the maximum and minimum troop strength levels (i.e., the range) at which Fort Rucker could be most economically and efficiently operated within existing facilities. A profile cost report (i.e., to determine the military man-year support cost) was established by utilizing correlation and regression analysis using military man-years as the common factor in each analysis.

PERSONNEL

1. On 2 July 1970, COL James V. Preuit, FC, the ACofS, Comptroller returned to duty following attendance of the Resident Phase of US Army War College Nonresident Course during the period 22 June - 1 July 1970.

2. On 1 August 1970, ACofS, Comptroller, was redesignated Comptroller under CIMS.

3. On 1 November 1970, COL Wilbert A. Tieman, FC, was assigned to, and appointed as, the Comptroller.

4. On 1 November 1970, COL James V. Preuit was appointed Special Assistant Deputy Commanding Officer, Office of Comptroller, DCO.

5. On 20 December 1970, COL James V. Preuit was reassigned to Headquarters, Third US Army, with duty station at Florida State University, Tallahassee, Florida.

DEPARTMENT OF AVIATION MAINTENANCE

Organization:

At the beginning of 1970, The OV-1 tape instrument problem, due to premature failure, came into existence and has been a constant cause for NORS aircraft. As of this date, this situation still exists.

An improved hydraulic filter, which features a pop-up button to indicate when it becomes clogged has been procured. The installation of the new filter on all UH-1's at Fort Rucker was completed in Feb 70. This now allows IP's to safely give hydraulic servo off training.

In July 1970, the CIMS reorganization redesignated ACofS, Maintenance as the Department of Aviation Maintenance.

CH-37 training was terminated in July 1970. One of the three assigned aircraft was transferred to the Aviation Museum; the other two were transferred to Arizona for preservation and storage.

Implementation of a weekly "Five or More Report", as requested by AVSCOM, commenced July 1970. This report reflects items having five or more aircraft NORS.

All OH-13's were classified as C&T in October 1970 and are currently being phased out of the Army inventory.

Two CH-54 type aircraft were added to the fleet in November 1970.

Personnel:

Colonel E. Ray Fitzgerald assumed command of ACofS, Maintenance 17 Feb 70 when Colonel Harvey E. Gill departed for duty in Hawaii.

Major David L. Greene assumed duty as Chief, Aircraft Quality Assurance Division, on 1 June 1970, replacing Major Walter N. Wharton who departed to attend C&GS College at Fort Leavenworth.

LTC Donald M. Vosel became Contracting Officer's Representative for aircraft maintenance in August 1970 replacing LTC Donald Norgard who departed for RVN.

Accomplishments:

An improved UH-1 tail rotor hub, referred to as the 801 hub was developed and issued for replacement of the old tail rotor hubs installed on all UH-1's, this station. All UH-1's at Fort Rucker are now equipped with the 801 hub.

From January through December 1970 the Page Aircraft Engine Rebuild and Overhaul Shop has completely rebuilt and zero timed 92 XO 47-L engines for the T-42 type aircraft at Fort Rucker. During this time the T-42 aircraft have flown 69,099 hours with an engine failure rate of zero.

During the year the contractor has overhauled 620 cylinder and piston assemblies of which 500 cylinder and piston assemblies were for top overhaul with no failure rate reported.

In March, the Atlanta Army Depot Modified IROAN Program was initiated with Fort Rucker's delivery of 3 UH-1B aircraft and 2 UH-1D aircraft.

Failure of two sections of TH-13 tail rotor drive shaft revealed internal corrosion

which generated a requirement for fleet wide inspection. PAMI developed an x-ray procedure of inspection which led to 100% replacement of three sections and about 5% replacement of the drive shaft extension. An annual requirement to x-ray all shafting was established and is now in progress.

Two circulating teams of Supply Surveillance Division inspectors were organized to go from field to field to make an inventory of accuracy, primarily quantity and secondly storage location. Results of these inspections have been rewarding.

Three TH-13T aircraft were equipped with full instrument landing systems for evaluation.

There was a requirement to dye-penetrant inspect the CH-47 forward pivoting actuating attaching points after each 50 flying hours. This method required eight manhours to perform the inspection. An ultra-sonic method of performing the inspection was developed which cut the manhour time to 30 minutes.

Action was taken in May to procure AC281 spark plugs for the TH-13T supercharged engine because they proved more effective than previous spark plugs.

A proximity warning device project was completed in August 1970.

The ARC 51 radio was installed on all TH-13T aircraft this year.

An engine health program (HIT) was developed and applied to the UH-1 fleet in September 1970. Fort Rucker ETV produced a film program in October 1970 to standardize operators in the use of the program.

Depot credits for FY 1970 were increased \$1,431,491.01 over FY 1969.

The following changes occurred in the aircraft inventory during the year:

<u>AIRCRAFT</u>	<u>ASSIGNED 31 Dec 69</u>	<u>ASSIGNED 31 Dec 70</u>	<u>CHANGE</u>
TH-13T	286	285	-1
OH-13	27	19	-8
OH-6	12	13	+1
OH-58	7	16	+9
UH-1	362	349	-13
CH-34	4	5	+1
CH-37	3	0	-3
CH-47	46	41	-5
CH-54	5	7	+2
O-1	58	54	-4
U-6	14	13	-1
T-41	22	18	-4
U-8	5	6	+1

<u>AIRCRAFT</u>	<u>ASSIGNED 31 Dec 69</u>	<u>ASSIGNED 31 Dec 70</u>	<u>CHANGE</u>
T-42	61	61	0
U-21	7	7	0
OV-1	22	21	-1
C-47	2	3	+1
C-45	0	1	+1





DIRECTORATE OF FACILITIES ENGINEERING

ORGANIZATION:

The Fort Rucker Fire Department conducted 10,926 on-post fire inspections during CY 70. Fire inspections were also conducted in 111 trailer courts in neighboring communities. There were eleven cases where the Fort Rucker Fire Department responded to calls to assist local communities in extinguishing fires.

During CY 70 there were 7,989 personnel who attended 108 classes and demonstrations emphasizing what action to take in the event of fire, including prevention measures and use of fire extinguishers. Major emphasis in fire prevention was placed during Spring Clean-up Week, 7-12 April and National Fire Prevention Week, 4-10 October.

There was a total of \$20,402 of fire loss, of which thirteen were reportable to higher headquarters (eight structural and five woods).

ACCOMPLISHMENTS:

Construction of four major facilities began in 1970. On 26 June, construction began on the 140-man BOQ with completion expected 15 August 1971. On 30 June, construction began on the Instrument Trainer Building with completion expected 23 August 1971. On 16 July, construction began on the Warrant Officer Career Development Facility with completion expected 29 July 1971. On 1 December, construction began on the Maintenance Instruction Facility with completion expected 9 April 1972.

During the period 1 January through 31 December 1970, \$4,336,800 of new construction was completed. The Engine Runup Building was completed in June at a cost of \$650,000. Also in June, Aircraft Parking Aprons at Cairns and Shell Fields were completed at a cost of \$379,000 and the Rotary Wing Stagefield at Louisville was completed at a cost of \$727,000. Two student dormitories and one mess hall were completed in August at a cost of \$1,484,800. Conversion of Knox Field to a base field was completed in October at a cost of \$1,096,000.



STAFF JUDGE ADVOCATE

ORGANIZATION:

During the period 4 - 5 March 1970, an official visit was made to Fort Rucker and the SJA Office by Colonel (Prom) Bruce Babbitt, Assistant Judge Advocate General for Civil Law. He was given a tour of the installation and was briefed on SJA operations at Fort Rucker. His Report of Visit determined SJA operations at Fort Rucker, particularly in the civil law area, to be very satisfactory.

On 9 March 1970, LTC Fred Bright, Jr., arrived from Vietnam and assumed the position of Deputy Staff Judge Advocate replacing Major Marvin Jacobs who departed for Korea on 1 April 1970.

On 31 May 1970, Colonel Thomas M. Wells retired after 27 years of service. He purchased a home in Atlanta for his retirement. LTC Bright became Staff Judge Advocate upon the retirement of COL Wells.

Effective 1 August 1970, the SJA Office was reorganized, pursuant to the CIMS plan. In place of many small and varied branches, two new branches were created: Military Justice Branch and Military Affairs, Legal Assistance and Claims Branch. This reorganization eased the problem of administrative control of the various functions of the SJA Office.

LAW DAY:

The annual Law Day Luncheon was held at the Fort Rucker Officer's Open Mess on 30 April. The luncheon was attended by approximately 30 military and civilian invitees which included local judges, prosecutors, and presidents of local bar associations. Eleanor O. Oakley, US Commissioner, in Dothan, was guest speaker.

MILITARY JUSTICE BRANCH

ACCOMPLISHMENTS:

Between 1 January and 31 December, the Military Justice Division of the SJA Office provided both trial and defense counsel in 14 trials by general court-martial and 216 trials by special court-martial. In addition to providing appointed counsel for trials, 161 summary court-martial records and 3042 records of proceedings under Article 15, Uniform Code of Military Justice, were reviewed for legal sufficiency during the same period.

The attorneys assigned to the Military Justice Branch also counseled approximately 5,000 people during the year on problems relating to military and civilian criminal law. Fort Rucker does not have a military judge permanently assigned to try special and general courts-martial. In order to try these cases, it is necessary to request a military judge from Fort Benning, Georgia. Over the year the SJA Office has been able to obtain a military judge an average of 4 days per month for the trial of all general and special courts-martial. Fort Rucker remains significantly below the Third Army and Army-wide rates for all types of courts-martial.

MILITARY AFFAIRS, LEGAL ASSISTANCE AND CLAIMS BRANCH

ACCOMPLISHMENTS:

During 1970, military personnel and their dependents made inquiries and were assisted by the legal assistance section concerning approximately 25,000 legal problems. Over 7,000 legal documents and letters were prepared in response to these inquiries. In addition to office legal assistance, personnel from the legal assistance section gave about 20 lectures to local military units, associations and clubs. The section also conducted a sixteen hour seminar on Federal and State Income Taxation held on 24-25 January. Over eighty people from various units at Fort Rucker attended the seminar, the purpose of which was to train these individuals in the preparation of individual income tax returns so they could aid personnel assigned to their units.

The Military Affairs Section received approximately 2,000 inquiries, both oral and written, pertaining to legal and administrative questions of an official military nature from the command and subordinate units.

The Procurement Section continued its support of the Procurement Division, DIO. Over the year, approximately 300 contracts and solicitations were reviewed for legal sufficiency. The total value of these actions was in excess of \$50,000,000. Advice was also given relating to command and procurement action during the strike against the flight training contractors during July and during the termination and subsequent negotiations of that termination.

The Claims Section reviewed over 800 claims filed against the United States in the Fort Rucker geographical area. Of the total reviewed, 709 claims were approved for payment in the total amount of \$159,246.96. The Claims Section also reviewed over 700 demands against carriers of household goods for damage caused in movement and assisted military personnel in pursuing their remedies against the carrier.

The Claims Section was also responsible for pursuing claims in favor of the Government. A total of \$72,629.75 was collected and deposited to the account of the treasurer of the United States. Of this total \$39,469.07 was recouped from carriers for damage to servicemembers' property in transit and \$33,160.68 was recovered from third party damage to Government property and negligent injury to Government personnel and dependents causing medical treatment at Government expense.



OFFICE OF THE INSPECTOR GENERAL

ORGANIZATION:

On 1 July 1970, the Office of the Inspector General was authorized an additional officer (Major), which brought the personnel authorization to 1 LTC (IG), 2 Majors (Asst IG), 1 E-8 (Supply Inspector), 1 GS-7 (Adm Insp), 1 GS-7 (Investigator (Steno)), and 1 GS-3 (Clerk Typist). With the addition of this officer space and assignment of an officer to fill it, the mission of the Inspector General's office has been more adequately fulfilled.

PERSONNEL:

The following changes in personnel occurred during CY 1970:

LTC Robert O. Carter was assigned to assist in fulfilling the mission of the office of the Inspector General. He reported for duty in Feb 70 and was quickly integrated into the working staff of the office. LTC Carter was reassigned to US Army Aviation Human Research Unit in May.

LTC Neal C. Petree, the Center Inspector General, was reassigned as Deputy Director, Department of Rotary Wing Training in July 1970.

LTC Donald S. Galla reported for duty as the Center Inspector General from the Republic of Vietnam in October 1970.

REQUESTS FOR ASSISTANCE/COMPLAINTS:

Approximately 1800 requests for assistance and complaints were received and resolved during the year.

INSPECTIONS:

During calendar year 1970, 35 annual general inspections were conducted by this office.

MANAGEMENT INFORMATION SYSTEMS OFFICE

MISSION:

The Management Information Systems Office is responsible for all planning, development and operation of automatic data processing at USAAVNC/S.

ORGANIZATION:

On 1 July 1970, the Management Information Systems Directorate was reorganized according to the CIMS Study as the Management Information Systems Office (MISO), with LTC John Scoggins continuing as Chief, MISO. TDA manpower authorizes 18 military and 46 civilian spaces.

ACCOMPLISHMENTS:

In the year 1970, the Management Information Systems Office moved to new quarters in the city of Daleville. These new quarters are specifically designed for sophisticated computer operations and allowed MISO to accept delivery of a new IBM 360/30 computer on 2 July 1970.

The IBM 360/30 performs single operations in less than one-millionth of a second and replaced two (2) old computers and several items of other support equipment. The MISO operates approximately 500 Third Army standard programs and 100 programs developed solely for use at Fort Rucker and is a 24-hour-a-day operation.

PLANS & DEVELOPMENT BRANCH

ACCOMPLISHMENTS:

Prepared equipment and office layout plans, training requirements, preparation of readiness review and assisted in the implementation of Interim ACCESS I ADPE Project. This project resulted in an estimated FY 71 reduction of \$170,145 in cost and cost avoidance.

SYSTEMS ANALYSIS & PROGRAMING BRANCH

ACCOMPLISHMENTS:

Accepted responsibility for programing, documenting and maintaining the Third US Army Standard Stock Control and Stock Accounting System (LIA) on UNIVAC 1005 and S/360.

MACHINE OPERATIONS BRANCH

ACCOMPLISHMENTS:

Graded approximately 175,000 student examinations, processed in excess of 100,000 work requests involving the production of some 250,000 management reports in the financial, logistic, academic and personnel areas.

INFORMATION OFFICE

ORGANIZATION:

As directed by the CIMS Report and subsequent directives, the name of this organization was changed from the Public Affairs Office to the Information Office, 1 July 1970.

PERSONNEL:

Major Wade W. LaDue replaced LTC R. Joe Rogers as the Information Officer in September.

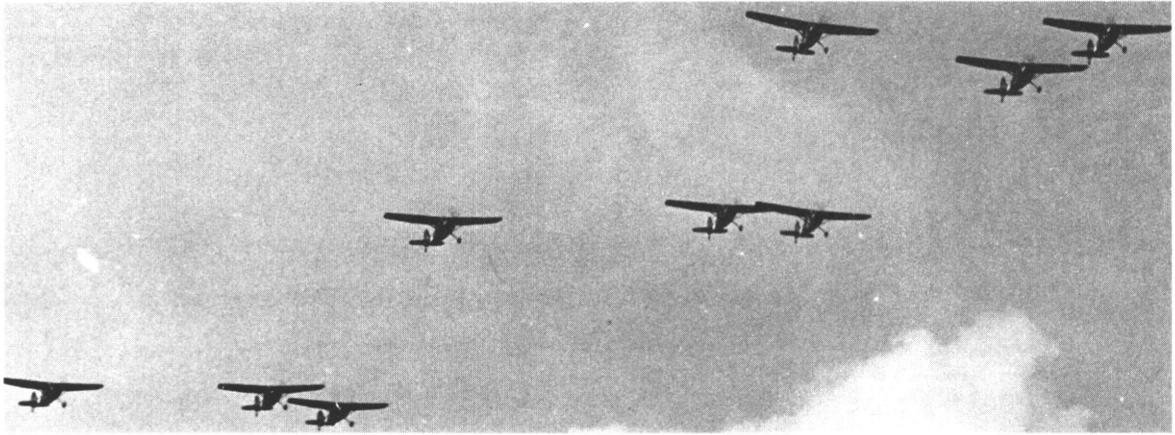
ACCOMPLISHMENTS:

The Information Office hosted a local news media press day in May. Representatives from Enterprise, Ozark, Daleville and Dothan attended. The visit by these people resulted in several stories in the local area newspapers and on both television stations as well as the area radio stations.

In August the Information Office coordinated the activities of the second Leaseholders Picnic, hosted by the Commanding General. Approximately 250 people, military and civilian attended. The purpose of the picnic was to give this Command the opportunity to express its appreciation to the leaseholders for their cooperation and support in lending training sites to the Command.

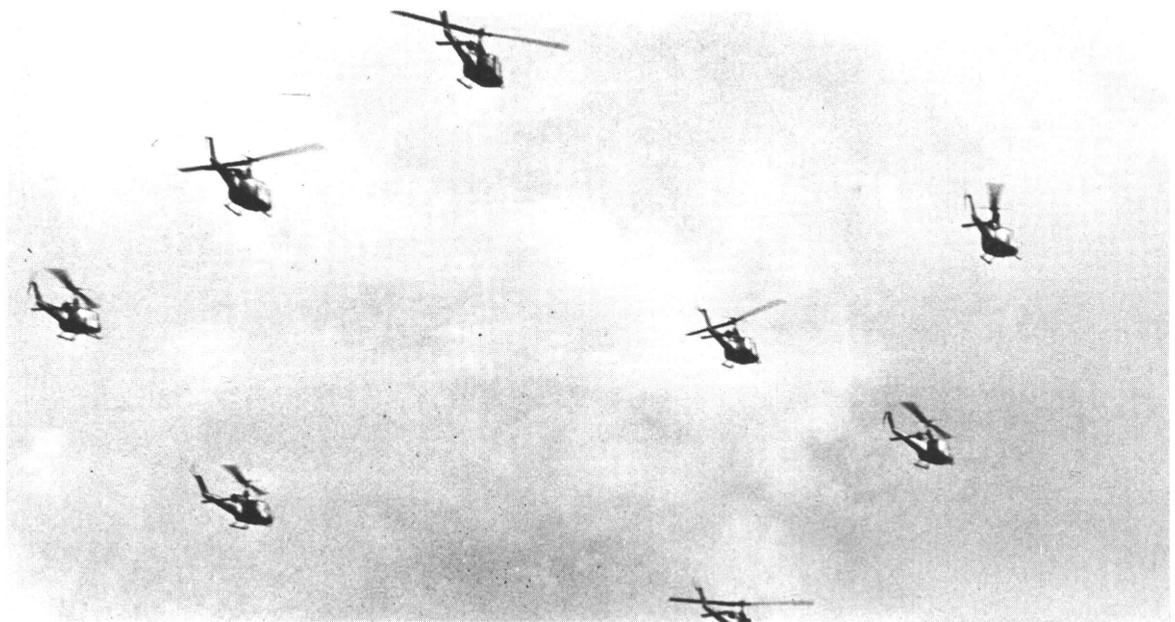
In November this office hosted a press conference and show in conjunction with the Honeywell Corporation to show the area press the Proximity Warning Device to be installed in TH-13's.

During 1970, the Speakers Bureau coordinated and furnished military speakers to 59 civic groups in the local area, with a total audience of over 9877. The speakers discussed a variety of military subjects.



CHAPTER 2

U.S. ARMY AVIATION SCHOOL



DEPARTMENT OF ROTARY WING TRAINING

MISSION:

Department of Rotary Wing Training's primary mission is to provide flight and simulated flight instruction for qualification/transition and instrument training in rotary wing aircraft.

ORGANIZATION:

On 1 November 1970 an extensive staff study was launched for the reorganization of the various flight departments. It was proposed that all initial entry flight courses be placed under one department and all graduate flight courses in another. The general concept has been approved and the completion of the reorganization with personnel transfers, TDA's, etc., is to be accomplished early in 1971.

PERSONNEL:

Colonel Lloyd O. Pruett was Department Director at the beginning of 1970. On 19 January 1970, COL J Y Hammack was assigned as Department Director. COL Hammack remained in the director's position until 28 September 1970, at which time COL Colin D. Ciley, Jr., took over as Department Director.

Department of Rotary Wing Training (DRWT) experienced a personnel turnover rate of 75% during the year. Authorized strength for the department is as follows: Officers, 242; Warrant Officers, 477; Enlisted Men, 158; and Civilians, 163, for a total of 1040 assigned personnel.

ACCOMPLISHMENTS:

The following represents a monthly breakdown of special missions performed by DRWT during CY 1970:

Jan: One CH-47 and one CH-54 for orientation flights for COL (P) George S. Patton, Jr., one CH-47 for static display in support of Honorable William K. Brehm, Assistant Secretary of the Army, visit to Fort Rucker; one UH-1 to provide local area orientation for MG John E. Groven, Chief of Staff, Belgium Army.

Feb: One CH-47 to provide local area orientation for 19 members of Staff and Faculty, Canadian Forces Instrument Check Pilot School; one UH-1 to provide check out for Air Force BG James G. Hughes, Presidential Military Assistant.

Mar: One OH-6, one UH-1 for static display at Tuskegee Institute, Tuskegee, Alabama. Two CH-47's to support the Ninth Joint Services Aviation Safety Conference conducted at Fort Rucker; two CH-47's to provide local area orientation for staff and students from the ROTC Detachment, Tuskegee Institute, Tuskegee, Alabama.

Apr: One CH-47 to recover damaged aircraft at NAS Meridian; three UH-1's for area tour of Gold Star Wives.

May: One OH-6, one UH-1 static display at Keesler AFB, Biloxi, Mississippi; one OH-6, one OH-58, one UH-1 static display at Coast Guard Aviation Center, Mobile, Alabama; one CH-47, one OH-58 static display at Eglin AFB, Florida; one CH-54, one CH-47, one UH-1, one OH-58, one OH-6 static display at Cairns AAF, Fort Rucker.

Jun: One TH-13T, one CH-47, one CH-37, one CH-54 static display for Army Aviation Birthday Celebration at Fort Rucker.

Jul: One CH-47 to pick up T.O.W.E. missile at Lawson and return to Fort Rucker.

Oct: Two CH-47's to fly 66 allied officers to observe training at different stage-fields; one CH-47 to fly to Eglin AFB to pick up parts of an air mobile tower to fly it to a different location and reassemble it as a test of its air mobile capability; one CH-47 to sling load a F-84 from Selma, Alabama, to Marion Institute, a distance of approximately 30 miles, the F-84 was to be used as a display item; three OH-6A's to participate in a flyby at the Peanut Festival, Dothan, Alabama; one CH-47 to fly to Fort Stewart, Georgia, for a UH-1 recovery.

Nov: One UH-1 to fly Iranian VIP on a post tour; one CH-47, one OH-6A for static display at Maxwell AFB.

In 1970, a total of 4,440 basic entry students graduated and received the wings of an Army Aviator; 2814 advanced qualifications and transitions were given; and 520 aviators graduated from methods of instruction courses.

This is a total of 7774 students graduating from Department of Rotary Wing Training courses. In accomplishing this training 418,375 hours were flown. In addition, the synthetic trainers were utilized for a total of 100,486 hours.

The Department has also trained 298 allied students from the following countries: Australia, Ethiopia, Germany, Greece, Indonesia, Iran, Jordan, Korea, Thailand, Turkey, Argentina, Canada, National China, RVN, Spain, Belgium, Denmark, Dominican Republic, Great Britain, India, Italy, Morocco, Nicaragua, Norway, Sweden, Venezuela and Singapore.

During the year, Department of Rotary Wing Training had a total of 22 accidents with three fatalities, for a rate of 5.17 accidents for 100,000 flight hours.

During CY 70, the Department of Rotary Wing Training was presented with the Third US Army Commanding General's Award for disciplined, reliable and efficient flight operations for FY 1970.

Continuous in-depth safety surveys were continued during the year with the result of elimination and reduction of many potentially hazardous conditions. Surveillance ranged from policy and procedure review to building and confined area inspections.

The Synthetic Flight Training System (SFTS) project is progressing with initial installation scheduled for December 1970, and service testing planned for March 1971. This system will provide faster, better, safer, instrument and transition training and improved, realistic, emergency procedural training. The SFTS should significantly improve training while reducing training cost.

The new administrative classroom flight training facility at Knox AHP was opened for utilization. Construction was started on a new facility to house eight SFTS subsystems. Building 6031 at Guthrie Field has been modified to temporarily house the SFTS engineering development model.

Departmental briefings were presented to both senior and junior medical officers stationed at Fort Rucker. New permanent party and student wives received an opportunity to see their husbands at work and receive briefings relevant to their husband's occupation or training. Highly successful briefings and demonstrations, such as Hunt Stagefield VIP briefings and Hanchey AHP family tours were presented with enthusiasm and professionalism. Hooper Stagefield was utilized quite frequently for VIP briefings and demonstrations this quarter. Plans Branch was entirely responsible for the planning and execution of the highly impressive static display and air mobility demonstration presented to the military attaches representing 49 foreign countries, including the Soviet block nations, participating in the Department of the Army's annual attache tour. A similar display and demonstration was presented to Mr. H. Ross Perot and MG Delk Oden. Both presentations received quite favorable comments from the visiting

dignitaries. Lowe AHP was also utilized for a static display and briefing concerning instrument training.

The following general officers and/or promotable colonels attended the General Officer Rotary Wing Qualification Course:

MG Douglas Vincent	8 Feb - 27 Feb
BG David W. Hanlon	8 Feb - 13 Mar
BG John H. Cushman	12 Feb - 27 Feb
COL (P) Eugene P. Forrester	2 Mar - 3 Apr
BG Fred E. Karhohs	16 Apr - 15 May
COL Franklin	21 Apr - 15 May
COL George P. Wear	22 Jun - 25 Jul
MG John R. Deane	22 Jun - 25 Jul
COL William C. Louisell	22 Jun - 1 Oct
BG H. E. Wolfe	13 Jul - 14 Aug
BG H. E. Emerson	7 Aug - 5 Sep
BG A. S. Hyman	31 Aug - 2 Oct
COL O. E. Smith	31 Aug - 2 Oct
COL Henry H. Bolz, Jr.	19 Oct - 21 Nov
BG John K. Singlaub, Jr.	16 Nov - 19 Dec
MG Edward Flannagan, Jr.	16 Nov - 19 Dec

General Westmoreland received refresher training 8 Jan - 10 Jan, additional training 19 Sep - 21 Sep and was awarded his aviator rating at the graduation exercises of WOFWAC/WORWAC 70-25 on 21 Sep 70.

DEPARTMENT OF TACTICS

MISSION:

The Department of Tactics prepares and presents advanced, intermediate, and basic level instruction in organization and tactical employment of Army Aviation units; reviews current TOE's; develops tactics, techniques, and procedures for Army Aviation; monitors, reviews, and prepares training literature publications and extension course materials in consonance with the policies and procedures set forth in current USAAVNS Regulations; and coordinates with and receives professional literary assistance from the Department of School Support during the planning, preparing and subsequent amending phases of the literary work involved.

PERSONNEL:

The Department's strength as of 31 December 1970 was 465 officers and warrant officers, 288 enlisted men and 21 DA civilians.

Colonel William H. Harper remained Department Director the entire year. There were several changes in Deputy Directors: Colonel Samuel Kalagian departed in January, Lieutenant Colonel Archie Summers departed in May, Lieutenant Colonel James Vance departed in July, and Lieutenant Colonel James Moore assumed the duty of Deputy in August.



The Department of Tactics is responsible for pilot training under conditions of simulated combat. Field exercises include programmed flight instruction and tactical employment of avionics to include use of intelligence acquisition, logistics and operational planning. Student pilots are taught all phases of aircraft deployment: Safety, mobilization, contingency plans, support, reconnaissance, assault and communication. In addition, DOT is assigned the role of training crewmembers for maximum efficiency in tactical situations.



ORGANIZATION:

A Department Safety Council was established and meets quarterly to discuss proposed changes to the safety/standardization program.

TAC 1 Branch and TAC X Branch were redesignated Airmobility and Combat Assault Branches respectively.

Airmobility Branch put into use remote radio transmitter and receiver antennas near TAC Runkle to facilitate flight following communications.

Fixed wing tactical training went to a four-week flow, two-week input concept and shifted a portion of its FEX to Eglin AFB in conjunction with ranger student training.

ACCOMPLISHMENTS:

Individual standardization notebooks were prepared for each aviator in the Department. The notebooks will contain all pertinent policies and procedures concerning safety and standardization. All pilots will be required to have their notebooks inspected monthly to insure that they are complete and that the pilots have received the material contained therein. This is to insure that all information is disseminated to the lowest level and that they are reviewed periodically.

Provided personnel and aircraft for static displays supporting Leaseholder's Day activities to enhance rapport between civilian leaseholders and the Army.

Presented instruction to 7,452 officers, warrant officers and warrant officer candidates and 15,438 enlisted men during the year.

Aviation Armament Division initiated a four-week gunnery flow for initial entry rotary wing students which resulted in a new MOS producing course for Warrant Officers.

Airmobility Branch, Tactical Training Division, conducted airmobile operations in support of Ranger student training at Eglin AFB, Florida, and OCS, NCOCS, IOBC courses at Fort Benning, Georgia.

Airmobility Branch provided aircraft and crews and conducted simulated combat assaults in support of an Experimental Infantry Officers Basic Course at Fort Benning, Georgia.

The Fixed Wing Branch, Tactical Training Division, was awarded the 15,000-hours safety award for the period 20 June 1969-21 June 1970.

The Attack Scout/Instructor Pilot Branch and Door Gunner Training Branch, Aviation Armament Division, completed one year of accident-free flying on 31 December 1970.

The Aviation Armament and Tactical Training Divisions conducted airmobile assaults and participated in the fire power demonstration for the US Military Academy cadets touring Fort Benning, Georgia.

DIRECTOR OF INSTRUCTION

MISSION:

DOI's primary mission is to develop, coordinate and supervise training plans and requirements for resident courses of instruction at the USAAVNS.

ORGANIZATION:

During 1970, DOI experienced several organizational changes to include: (a) 1 May 70 the Secretariat for Training Devices was transferred to DOI from DOSS; (b) Formal activation of a Standards Division was accomplished on 3 Aug 70 in an effort to achieve flight standardization within USAAVNS.

PERSONNEL:

Authorized strength for DOI at the end of 1970 is as follows: Officers, 65; Warrant Officers, 28; enlisted men, 35; and civilians, 54 for a total of 182.

OPERATIONS DIVISION

ACCOMPLISHMENTS:

Due to the cutback of US troops in Vietnam, Programs Branch, DOI, was involved in the implementation of a phase down and elimination of aviation courses at Fort Rucker. This involved the elimination of the Officer, Warrant Officer Fixed Wing Aviator Course 2B-1980A/101B-A effective 29 June 1971 and phase down in all rotary wing courses taught at USAAVNS beginning in FY 71.

On 16 April 1970, four hours of Financial Management for Warrant Officer Candidates were implemented by this office.

Scheduling Branch has undergone administrative and organizational changes which have increased its efficiency and effectiveness. Changes to techniques of operation and method of mission accomplishment have resulted in submission of Cost Reduction and Management Improvement savings amounting to more than \$4,500 for calendar year 1971.

In Sep 70, a major maintenance problem arose in the UH-1 aircraft. Engine deck separation caused the grounding of 194 UH-1 aircraft. Immediate action was initiated to reduce all UH-1 aircraft requirements down to those essential to student training. The loan of 107 UH-1's was requested and student training objectives were reduced from 210 hours per student to 200 hours. During the interim of receiving the loaned aircraft, a portion of the TAC X and RWQC tactical phase was discontinued. The Aircraft Management Center scheduled UH-1 aircraft to take full advantage of available assets. This included flying class sections during times aircraft were available, at night and on weekends. The effective management of resources and full utilization of the scheduled aircraft by the training departments enabled all initial entry rotary wing students to continue to meet their programmed graduation dates.

CURRICULUM DIVISION

ACCOMPLISHMENTS:

The Department of the Army has taken action to accept nonrated USAF officers into the Initial Entry Rotary Wing Aviator Course at the rate of 12 students per class beginning

with ORWAC Class 71-18. This class reported to USAPHS on 11 October 1970, and will report to the USAAVNS on 2 March 1971.

USAF officers, currently rated in fixed wing aircraft, will receive rotary wing qualification training at the USAAVNS at the rate of 11 students per class, beginning 4 Mar 71 with Class 71-9. All USAF students will receive a standard rotary wing instrument rating and will be UH-1 qualified upon graduation. Draft POI has been forwarded to Randolph AFB for approval.

As a result of a coordination meeting between USAAVNS and USAPHS in December 1970, the Officer/Warrant Officer Rotary Wing Aviator Course is undergoing restructuring to combine Phase I (USAPHS) and Phase II (USAAVNS) training and eliminate duplication.

In March 1970, the first class of VNAF students (35) arrived at USAAVNS to commence training in a separate Initial Entry Rotary Wing Course.

USAAVNS resourced three separate courses of action in reference to the Initial Entry Rotary Wing Training PCP (Standard Rating/All Service) to include the transfer of VNAF and Cobra training from the USAAVNSE to USAAVNS. Indications are that the following course will be implemented at USAAVNS on 1 July 1971:

PF	PRIMARY	
<u>4 Wks</u>	<u>14 Wks</u>	
-----	-----	-----
	100 hours	
Instruments	UH-1	TAC
<u>12 Wks</u>	<u>4 Wks</u>	<u>4 Wks</u>
-----	-----	-----
60 hours	25 hours	25 hours

USAAVNS is presently awaiting DA guidance concerning transfer of VNAF and Cobra training.

USAAVNS completed an optimum instrument trainer study in November 1970 to replace the present TH-13T instrument trainer. USAAVNS primary recommendation was the UH-1D/H followed by the OH-58.

EVALUATION DIVISION

ACCOMPLISHMENTS:

During CY 70, a total of 792 students attended 20 Academic MOI Courses. A total of 617 students successfully completed the course. This represented an overall attrition rate of 18.5%. A total of 20 academic MOI classes were conducted with an average of 40 students per class. Four Training Aids Workshops were conducted, graduating 35 students; 11 Supervisors Courses were conducted, graduating 162 students; and 10 Systems Engineering Workshops graduated a total of 85 students. During June, CY 70, AITB assumed the additional responsibility of conducting the Programed Instruction Workshop for USAAVNS. Four Programed Instruction Workshops were conducted, graduating 32 students.

Evaluation Division completed and forwarded to the Comptroller a study on the reorganization of USAAVNS in February 1970. The immediate result of this study was the movement of the Secretariat for Training Devices from DOSS to DOI and the provisional formation of Standards Division within DOI. The Standards Division became operational in April 1970.

On February 1970, the Assistant Commandant directed the DOI to establish an aircraft accident analysis system to provide more precise recommendations on actions that need to be initiated to improve the ability of the flight crews to successfully cope with unusual situations. The system is a critical analysis of the information contained in aircraft accident reports, from a training and curriculum improvement point of view. The major training improvements within USAAVNS which resulted from this review and analysis are:

- a. Positive control of aircraft in stagefield traffic.
- b. Unannounced emergency training.
- c. Improved forced landing procedures.
- d. Approved forced landing touchdown areas.
- e. Improved power recovery and go-around procedures.

Evaluation Division, after reviewing and analyzing the results of the 1970 Army Aviation Annual Written Examination and comments from the field, compiled and wrote the 1971 Army Aviation Annual Written Examination. Eight months (April through November) were required to analyze, review, research, compile, coordinate, write, pretest, rewrite, and print the 1971 examination.

FILM/EDUCATIONAL TV DIVISION

ACCOMPLISHMENTS:

In February, Class IV Signal Project CON-3AR-08000 04-68 was completed at a cost of \$150,000. This project expanded ETV distribution from 74 to 216 classrooms containing 368 TV receivers.

USAAVNS received the VR 3000 (Back-Pack Portable Video-Tape Recorder) in July which expands the TV production capability to include air-to-air and air-to-ground sequences. The request to procure the VR 3000 was approved with the stipulation that the device would be available for dispatch within the southeastern United States to tape civil disturbances. The purchase price of the VR 3000 was \$61,435.

The TV Production Section completed 74 productions during 1970. This is an increase of 50% over 1969. These productions have resulted in a significant savings of time and money. For example, the video-tape on CH-47 Preflight Inspection Procedure resulted in an annual savings of \$68,154.16.

STANDARDS DIVISION

ACCOMPLISHMENTS:

At the direction of the Assistant Commandant, Standards Division chaired an Ad Hoc Committee to perform an in-depth examination of the feasibility of consolidating flight instructor training fragmented throughout USAAVNS under separate flight training departments. The committee reported its findings of significant savings in training resources and improvements in the overall quality of instructor training. It recommended an organizational structure which has since become the basis for plans to activate the Department of Standardization and Instructor Training during current efforts to reorganize the aviation training base.

SECRETARIAT FOR TRAINING DEVICES

ACCOMPLISHMENTS:

On 9 March, the first USAAVNS trainees started a seven week digital course conducted at the Naval Training Device Center, Orlando, Florida. A total of 14 USAAVNS personnel attended the courses as a prerequisite maintenance course for complex trainers scheduled for delivery to the USAAVNS.

On 7 April, a CH-47 Hydraulic System Trainer, procured by AVSCOM from Boeing-Vertol, was delivered. The trainer, funded by USAAVNS, was obtained for use by the Department of Maintenance Training.

On 11 June, the Army Participation Group (APG) awarded a contract to Burtek, Inc., Tulsa, Oklahoma, for an OH-58A/T63-A-700 Power Plant Simulator. The device, designated as the 2A27E, is scheduled for delivery in June 71 and is for use by the Department of Maintenance Training. Funding was by APG.

The Trainer Corporation of America was awarded a contract by APG on 17 June for an OV-1C Cockpit Procedures Trainer. Funds for procurement of the trainer were provided by APG and delivery is scheduled for June 71. The trainer will be used by the Department of Advanced Fixed Wing Training. Cost of the trainer is \$190,500.00.

On 21 October, a Small Development Requirement (SDR) for a 2.75" subcaliber rocket (mini-rocket) was forwarded to CONARC. CONARC approved the requirement and submitted it to CDC for action on 30 November. The mini-rocket device is a requirement of the Department of Tactics and its implementation will result in large cost savings.

DEPARTMENT OF MAINTENANCE TRAINING

MISSION

1. To train enlisted Army personnel as Aircraft Maintenance Apprentices and repairman to perform organizational, direct and general support maintenance.
2. To train enlisted door gunner volunteers in selected UH-1 maintenance subjects.
3. To train aviators in the operations of aircraft systems.

ORGANIZATION

1. The Department of Maintenance Training is composed of seven divisions as follows:
 - a. Headquarters Division.
 - b. Operations Division.
 - c. Maintenance Support Division.
 - d. Cargo/Observation Helicopter Instructional Division.
 - e. Fixed Wing Instructional Division.
 - f. Utility Helicopter Instructional Division.
 - g. Primary Maintenance Instructional Division.
2. The Department of Maintenance Training is authorized 57 officers, 3 warrant officers, 631 enlisted men, and 59 civilians. This does not include the 1 officer, 38 enlisted men, and 11 civilians in the Maintenance Support Division which is under operational control of DOMT, but assigned to the Department of School Support.

ACCOMPLISHMENTS

1. During the last quarter of CY 1970 acceptance tests were run on the nine test cells of the new Jet Turbine Run-up Facility, in preparation for students beginning training in January 1971. This facility, built at a cost of \$2.2 million dollars, consists of nine engine cells (6 UH-1 and 3 OH-6A/OH-58 engines). It will be used to teach actual "hands-on" engine repair, troubleshooting, and adjustments on live operational engines. This facility also has a trouble insertion panel which has the capability of inserting actual and simulated malfunctions into the engine. An expansion capability of 10 additional cells is available and can be added as requirements dictate.
2. Construction was begun in December on the new classroom/hangar complex. This building will consist of 28 classrooms and two maintenance hangars in the same building. With its 124,000 square feet of floor space, this \$3.3 million dollar complex will be the largest building on Fort Rucker. This building is scheduled for completion in early 1972.
3. During the calendar year 1970, the Department of Maintenance Training trained 7,094 enlisted repairmen in aircraft maintenance and 8,488 aviators in the operation of aircraft systems.
4. During 1970 the following courses were added or deleted:
 - a. The Maintenance Management Course for senior NCO's was started on 3 Aug 70.

This course is a refresher course in forms, records, supply procedures and personnel management.

b. On 28 September the OH-6A Aviator Qualification Course was started. This course provides the OH-6A student pilots with the maintenance portion of their academic training.

c. On 1 July 1970 the 67H20 (Mohawk) Enlisted Course was transferred to Fort Eustis, Virginia.

5. Approximately 44 officers per month have attended the Rotary Wing Qualification Course, and approximately 58 officers per month have attended the Instructor Pilots Qualification Course. This includes Active Army, Foreign Military, Naval and Air Force officers.

6. The Aviator Training Branch had the privilege of presenting a special familiarization briefing to General W. C. Westmoreland, Chief of Staff, United States Army, on the UH-1 helicopter.

7. The Department of Maintenance Training has continued to train Warrant Officer Candidates and Officers in their respective programs of instruction. Approximately 201 officers and candidates have passed through the Department of Maintenance Training bi-weekly.

DEPARTMENT OF SPECIAL AVIATION TRAINING

MISSION:

To provide a career development program to selected aviation warrant officers in order to maintain a base of highly skilled professional aviators capable of assuming aviation related positions of greater responsibility; and conduct air traffic control training in academic and field positions for selected officers, warrant officers, and enlisted aviation specialists.

ORGANIZATION:

There were no changes in the organization of the Department of Special Aviation Training until August 1970, at which time the Operations Division underwent a major reorganization. In December, the school approved plans to make DSAT responsible for all flight academics at USAAVNS. Operation under the new organization will begin on 1 Jan 71 and the department will be designated the Department of General Subjects.

PERSONNEL:

The Directors of the Department of Special Aviation Training during calendar year 1970 were as follows:

COL Ray Fitzgerald	1 Jan - 17 Feb
COL Colin D. Ciley, Jr.	17 Feb - 28 Sep
COL Samuel Kalagian	28 Sep -

Authorized strength for the department is 51 officers, 8 warrant officers, 94 enlisted and 66 civilians.

ACCOMPLISHMENTS:

In July, the ATC Division of DSAT received and put into operations the new T1 Tower Labs at all ATC training sites.

On 16 July, construction of the new WOCD classroom facilities began.

In December, the ATC Division received initial shipment of the new 15G16 Radar Simulator. This simulator is driven by a Sigma 5 computer and has the capabilities to supply targets for 10 GCA stations simultaneously.

DEPARTMENT OF ADVANCED FIXED WING TRAINING

OPERATIONS DIVISION

The accident and incident rate for CY 70 was slightly lower than CY 69. The accident rate was 7.05 for CY 69 and 14.03 for CY 70. The incident rate was 22.10 for CY 69 and 11.60 for CY 70 with an increase from 99,234 hours flown in CY 69 to 111,806 hours flown in CY 70. Two injuries and 7 fatalities occurred as a result of accidents in CY 70.

All initial entry courses changed to a two-week flow. Six hundred thirty four initial entry students graduated and received aviator wings. Nine hundred seventy graduated from Qualification and Transition courses. Sixty six graduated from MOI to instruct in formal courses of instruction. In addition, 150 were MOI qualified to instruct for the Instrument Flight Division as a result of default of civilian contractor on 27 Jul 70.

ACADEMICS DIVISION

ORGANIZATION:

On the 27th of July the Academics Division was required to assume all the Fixed Wing Synthetic Training and Platform Instruction formerly presented by a civilian contract flight training organization. The immediate requirement for flight simulator instructors was met by accelerating the training of a class of Flight Simulator Specialists nearing graduation. This group of recent graduates proved to be entirely capable of assuming an instructor's duties even though their normal assistant instructor period was necessarily curtailed. The academic instructional load was immediately advanced by approximately one third by imposing an additional 11,505 hours of instruction without a corresponding instructor increase.

INSTRUMENT FLIGHT DIVISION

During the first seven months of CY 70, Contract Evaluation Division flew 1775 hours while conducting 1260 checkrides. The purpose of these checkrides was to monitor the quality of instrument instruction being conducted by the civilian contractor.

On 27 Jul 70, the instrument training contract was terminated and the Contract Evaluation Division was reorganized as the Instrument Flight Division, assuming responsibility for all fixed wing instrument training. During this period over 20,000 hours were flown, 540 students were graduated on schedule and the Division sustained only one accident of unknown cause.

FLIGHT TRAINING DIVISION

ACCOMPLISHMENTS:

During the 1st Quarter of CY 70, the POI for the O-1 Qualification Course was increased from 28:30 hours to 40:30 hours. The change was predicated on reports from the field that additional time was required in the O-1 aircraft to increase the proficiency level of the final product of the USAAVNS. The increase in scheduled flight caused three initial entry classes to be in residence at one time instead of a previous student load of two classes. The additional class required increasing the number of O-1 flights from four to six with a corresponding increase in instructor personnel. An additional stagefield was required for O-1 training to keep the maximum number of aircraft at one stagefield within safety limits.

STANDARDIZATION DIVISION

The Fixed Wing Standardization mission was transferred to the DOI effective the beginning of FY 71.

Due to cancellation of flight training contracts, the Flight Standardization Division was required to train 100 T-42 Instructor Pilots in excess of the programmed number during the first half of FY 71.

The training of RA officers in the Fixed Wing Flight Examiners Course was terminated with FY 71 classes. Only Reserve and National Guard personnel are to be qualified in subsequent classes.

DEPARTMENT OF SCHOOL SUPPORT

MISSION: To provide logistic, funding, master planning, facility, and printing support for USAAVNS activities, plus printing and flight clothing support for USAAVNC activities.

ORGANIZATION: For the first four months of the calendar year, the department had TD assignment of one division of the DOMT and operational control of five divisions, i.e., Supply, Programs, Master Planning and Facilities Support, Army Field Printing Plant and a Secretariat for Devices. However, effective 1 May 70, the Secretariat for Devices was transferred to Director of Instruction to realign this office more closely with the instructional departments. On 27 October 1970 an ad hoc committee was established to study the current organization of the USAAVNS taking into consideration the CIMS concept and recommend an improved structure. One of the resultant recommendations was the disbandment of Department of School Support and realignment of its divisions within other elements of the USAAVNC/S structure. The recommendations of the committee were approved on a provisional basis and USAAVNC and Fort Rucker General Order Number 116 directed the discontinuance of Department of School Support effective 1 January 1971. The programming and logistic missions and spaces were transferred to S4, USAAVNS Brigade, the Master Planning mission and spaces were transferred to Director of Training, and the Army Field Printing Plant mission and spaces were transferred to the Adjutant General.

PERSONNEL: Department of School Support was authorized 8 officers, 2 warrant officers, 89 enlisted men and 95 civilian employees. Of these spaces, 1 officer and 36 enlisted men were under the operational control of Department of Maintenance and 8 enlisted men were under the operational control of Department of Tactics. The personnel delegated to the instructional departments were the instructional support element of these departments. As of 1 Jan 71, reassignment action of personnel was initiated.

ACCOMPLISHMENTS:

a. MASTER PLANNING AND FACILITIES SUPPORT DIVISION: Based on a revised funding guidance for the second half of FY 70 and FY 71, the division was directed to review the present USAAVNS facilities and pending MCA projects, in an effort to maintain minimum funding allocations. In accordance with this directive, a survey was made of USAAVNS facilities, resulting in revisions of building utilization. These revisions reduced total funding allocations.

Major training facilities completed this year consisted of the DOMT Engine Run-up Facility, Conversion of Knox Airfield into a permanent basefield, and the Survival Training area.

Major projects which began this year and are presently under construction include Warrant Officer Career Facility, Instrument Trainer Building, and the installation of seventeen AN/TSQ-70A-T1 Tower Cabs.

b. SUPPLY DIVISION: The dollar figure of the Supply Division property book computed on 1 May 70 totaled \$236,169,128.28. This included all supplies and equipment utilized by the instructional departments and the USAAVNS fleet of aircraft. These supplies and equipment are on hand receipt to 92 various elements. In accomplishing the supply mission, the Supply Division received 231 aircraft and turned 225 back into supply channels.

c. PROGRAMS DIVISION: Total expenditures in FY 70 for supplies, equipment, TDY and civilian pay amounted to \$9,587,261. This represented 99.9% of the USAAVNS program. A goal of \$1,019.0 was set in FY 70 under the RECON (Resources Conservation) program. Actual validated savings for this period was \$825.5. The four year program (FY 70 - 73)

under this program has been set as \$4,976.0 and the anticipated goal for this period has been assessed as \$7,984.4. Should this goal be met, it will result in schools and other educational facilities portion of the RECON program attaining 195.9% of the target.

d. ARMY FIELD PRINTING PLANT: During the year 1970 (Jan - Dec) the Army Field Printing Plant produced 158,206,028 productive units with a monthly average of 13,235,000 units. This average total is a one million per month increase over any year heretofore. The average cost per 1,000 units printed for the year was \$3.40.

DEPARTMENT OF AEROMEDICAL EDUCATION AND TRAINING

ORGANIZATION:

During the year, plans were initiated for expansion of the Department into additional cantonment buildings, adjacent to the present facilities, to accommodate the expanding activities of the Aeromedical Consultation Service and the instructional mission of DAET. By the last quarter of the year, these buildings were being used extensively for night vision training and the instruction of aviator students in aeromedical subjects. The Professional Education Division was expanded to undertake the mission of student aviator aeromedical training, in addition to its proponency for flight surgeon training. The Aeromedical Consultation Service was then organized to achieve division status.

ACCOMPLISHMENTS:

The Night Vision Trainer was completed in July 1970, enabling the initiation of student aviator training in aeromedical subjects. During this year, the Department undertook an additional 1000 annual platform hours for this purpose. This more than doubled the number of platform hours of instruction that were devoted annually to flight surgeon training. In addition to night vision orientation training, student aviators were instructed in altitude physiology, to include hypoxia, hyperventilation, oxygen systems and decompression sickness, spatial disorientation (pilot vertigo) and sensory illusions of flight, G forces, stress and fatigue, and noise and hearing conservation. Generalized classes of this nature were presented to all initial-entry fixed-wing and initial-entry rotary-wing students. In addition, specialized classes were presented to the instructor pilot courses for the U-21 (Ute), OV-1 (Mohawk), and U-8D&G aircraft. Other blocks of instruction were presented to the Warrant Officer Career Courses, both intermediate and advanced, in the form of a general overviews. Finally, specialized presentations on aeromedical aspects of the aviation mission were presented to officers involved in senior officer and general officer flight training.

Pursuant to Army Regulations 40-501 and 600-108, DAET maintained an active aeromedical consultation service, conducting the evaluation of thirty individual cases, most of which involved aeromedical in-flight evaluation. Almost all of the individuals evaluated were returned to some form of flying duty. This represents almost 1.8 million dollars savings in initial training costs, and in excess of 20,000 flying hours experience.

The Department's Deputy Director, Major Nicholas E. Barreca, M.D. became board certified in the speciality of aerospace medicine, by the American Board of Preventive Medicine, Inc, in June 1970. Thereupon, he was appointed as Preceptor of Phase III of the Army Aerospace Medicine Residency Training Program. He subsequently became a Fellow in the American College of Preventive Medicine. During the Aerospace Medicine Association Convention, Major Barreca was also re-elected to the Office of Secretary, to the Society of United States Army Flight Surgeons.

DEPARTMENT OF NONRESIDENT INSTRUCTION

MISSION: The Department of Nonresident Instruction is responsible within the US Army Aviation School for coordinating the preparation and revision of correspondence course materials pertaining to Army Aviation; administration of correspondence courses; preparation of the U.S. ARMY AVIATION DIGEST for publication; issue of USAAVNS instructional material to authorized offpost units, activities and agencies; and preparation and distribution of the Annual Army Aviation Written Examination.

The department is organized into the Office of the Director; the Correspondence Courses Division; Administration, Supply and Distribution; and the U.S. Army Aviation Digest. NRI's authorized strength is two officers, one enlisted man, and 16 civilians.

CORRESPONDENCE COURSES DIVISION

The following correspondence courses were revised during the year:

- AVN 24 - Aeromedical Evacuation - Feb 70.
- AVN 57 - Ground Handling, Auxiliary Ground Handling Equipment, and Mechanic's Handtools - Feb 70.
- AVN 3 - Army Aircraft and Principles of Flight - May 70.
- AVN 5 - Designation, Characteristics, and Weight and Balance of Army Aircraft - Nov 70.
- AVN 6 - Weather Elements, Reports, and Forecasts - Apr 70.
- AVN 7 - Emergency Procedures - Jun 70.
- AVN 8 - Flight Regulations and Air Traffic Control - May 70.
- AVN 10 - Basic Air Navigation and Flight Information Publications - May 70.
- AVN 15 - Army Aviation - Jul 70.
- AVN 18 - Army Aviation Orders and Command Relationships - Apr 70.
- AVN 19 - Aviation Maintenance and Supply, Forms and Publications - Dec 70.
- AVN 20 - Aircraft Maintenance - Oct 70.
- AVN 22 - Aviation Unit Training for Survival, Escape and Evasion - Jun 70.
- AVN 23 - Army Aviation Special Operations - Jun 70.
- AVN 25 - Airmobile Operations - Sep 70.
- AVN 26 - Aviation Field Exercises - Jun 70.
- AVN 27 - Aircraft Accident Prevention - Aug 70.
- AVN 28 - Army Tactical Air Traffic Control System - Jul 70.
- AVN 29 - Helicopter Operations from Amphibious Assault Ships - Oct 70.
- AVN 50 - Organizational Aircraft Maintenance (Supv) - Nov 70.
- AVN 51 - Introduction to the Army Maintenance System - Dec 70.
- AVN 52 - Technical Publications - Oct 70.
- AVN 55 - Army Aircraft Systems - Jul 70.
- AVN 60 - Airfield Operations and Crash Rescue - Nov 70.
- AVN 75 - Tactical Map Reading - Nov 70.
- AVN 76 - UH-1 General Familiarization - Aug 70.

The following correspondence courses were added during the year:

- AVN 56 - Aircraft Instruments and Landing Gear - Jan 70.
- AVN 11 - Airfield Operations - Apr 70.
- AVN 12 - Signal Operation Instructions - Sep 70.

During the year student enrollment totaled 1,796 and 37,403 lessons were processed.

U. S. ARMY AVIATION DIGEST

During the year the DIGEST began converting its manuscript locator file system to automatic data processing which will facilitate the determination of an article being

processed and will enable future researchers to quickly locate various aspects of the history of Army aviation.

The DIGEST's average circulation was 61,329 copies printed per month. The high for the year was 62,107 copies of the March issue.

USAAVNS SECRETARY

MISSION:

CY 1970 opened with the Office of the Secretary reorganizing for an expanded role in the United States Army Aviation School. Colonel L. O. Pruett replaced LTC W. F. Dixon as Secretary and LTC E. Val Hoey joined the organization as Assistant Secretary. As part of the expanded responsibility of the Office of the Secretary, CPT V. J. Samuel joined the Office of the Secretary as Administration Officer and Custodian of the USAAVNS Book Store system.

During the course of the year, the USAAVN Museum was transferred from the Office of the Secretary to Directorate of Plans, Training and Security. This left the Office of the Secretary with three divisions; Registrar, USAAVNS Library, and the Allied Military Training Division. Other personnel changes throughout the year included LTC J. T. McQueen replacing Colonel L. O. Pruett as Secretary during June. LTC James T. Bridges replaced LTC McQueen as Secretary on 1 December 1970. At that time LTC McQueen assumed Command of 4th Battalion, USAAVNS Brigade.

ALLIED MILITARY TRAINING DIVISION

MISSION:

The Allied Military Training Division is responsible for the administration of all allied students who come to Fort Rucker to attend Rotary Wing, Fixed Wing and Maintenance Training. In addition, Allied Military Training Division orients and educates students pertaining to the history and customs of the United States. To promote a better understanding of the American way of life, a Sponsorship Program is incorporated with the students' stay at Fort Rucker.

PERSONNEL:

In June, LTC Robert G. McPherson took over as Chief of the Allied Military Training Division, replacing MAJ Claude W. Lott, Jr.

The following is a breakdown of allied officers and enlisted men who completed training under various programs during calendar year 1970:

<u>COUNTRY</u>	<u>OFFICERS</u>		<u>ENLISTED MEN</u>		<u>TOTAL</u>
	<u>COURSE</u>	<u>NO.</u>	<u>COURSE</u>	<u>NO.</u>	
ARGENTINA	RW	1			1
AUSTRALIA	RW	7			7
BELGIUM	RW	2			2
CANADA	RW	12			12
CEYLON			RW	1	1
CHINA	RW	6	RW	2	8
DENMARK	RW	4			4
DOMINICAN REP	RW	2	RW	1	3
ETHIOPIA	RW/FW	10	RW/FW	6	16

<u>COUNTRY</u>	<u>OFFICERS</u>		<u>ENLISTED MEN</u>		<u>TOTAL</u>
	<u>COURSE</u>	<u>NO.</u>	<u>COURSE</u>	<u>NO.</u>	
GERMANY	RW	20	RW	9	29
GREECE	RW	6			6
GREAT BRITAIN	RW	1			1
INDIA	RW	1			1
INDONESIA	RW	3			3
IRAN	RW	7			7
ITALY	RW	1	RW	1	2
JORDAN	RW	21	RW	6	27
KOREA	RW/FW	30			30
LAOS			RW	1	1
MOROCCO	RW	3			3
NICARAGUA	RW	5	RW	5	10
NORWAY	RW	2			2
SINGAPORE	RW	10			10
SPAIN	RW	6			6
THAILAND	RW/FW	28	RW/FW	74	102
TURKEY	RW	10			10
VENEZUELA	RW	1			1
VIETNAM	RW	<u>79</u>		<u> </u>	<u>79</u>
TOTAL		278		106	384

USAAVNS LIBRARY HISTORY

The USAAVNS Library was administered by the Office of the USAAVNS Secretary during CY 1970. The current staff has five civilian librarians and two military technicians.

ACCOMPLISHMENTS

Library collections reached 136,000 items during the year and served approximately 5,000 faculty and students. A management study resulted in the reorganization of several functions of the Library and the installation of equipment to semi-automate routines.

In addition to full support to the Aviation School and Center, the Library continues substantial assistance to the Embry-Riddle Aeronautical University faculty and students, and to the participants in the graduate programs offered by the University of Southern California and Troy State University.

REGISTRAR DIVISION

ORGANIZATION:

The Registrar Division falls under the supervision of the Secretary, USAAVNS and is responsible for academic records of all students at Fort Rucker. Other responsibilities include official statistical reviews which are passed on to the Post Comptroller and CONARC, and initiates letters of probable failures, organizes and conducts faculty boards when appropriate.

ACCOMPLISHMENTS:

The Registrar Division conducted approximately twenty-four formal graduations for initial entry students and assisted in command orientations and swearing-in ceremonies.

PERSONNEL:

Major Clark, J. assumed duties as Registrar in June 1970.

Major Powell, B. assumed duties as Registrar in March 1970.

Major Matthews, J. assumed duties as Registrar in November 1970.

OFFICE OF DOCTRINE DEVELOPMENT, LITERATURE AND PLANS

MISSION:

Office of Doctrine Development, Literature and Plans (ODDI&P) is the USAAVNS action agency and representative of the Commandant in initiating and reviewing studies and literature dealing with Army Aviation training, doctrine, employment, organization, electronic warfare, and international standardization agreements. It is also the designated point of contact between the USAAVNS and USACDCAVNA for the coordination of all matters of mutual interest.

ORGANIZATION:

During 1970 the Office of DDI&P experienced no organizational changes.

PERSONNEL:

<u>Number:</u>	<u>Officer</u>	<u>EM</u>	<u>DAC</u>
Authorized, Dec 1970 - - - - -	17	1	10
Assigned, Dec 1970 - - - - -	19	3	10

ACCOMPLISHMENTS:

<u>Projects completed, 1970:</u>	<u>Number</u>
Studies, initiated - - - - -	42
Studies, reviewed- - - - -	56
TNGLIT, initiated- - - - -	18
TNGLIT, reviewed - - - - -	286
Other, initiated - - - - -	101
Other, reviewed- - - - -	<u>250</u>
Total	753

JANUARY

Published: Change 2, TM 1-250, Fixed Wing Flight; Change 3, TM 1-300, Meteorology for Army Aviation; revised ASubjSch 1-1, Aerial Navigation; revised ST 1-100-1, Reference Data for Army Aviation in the Field Army; revised ST 1-100-2, Army Aviation Common Subjects; new ST 1-105-8, Army Flight Surgeon's Manual.

FEBRUARY

Published: New ATP 1-58, Aviation General Support Company (TOE 1-58 and 1-78).

MARCH

Published: Change 1, AHT 1-259, Aviation Heavy Helicopter Company (TOE 1-259).

APRIL

Published: Change 1, FM 1-105, Army Aviation Techniques and Procedures; revised ATP 1-259, Heavy Helicopter Company (TOE 1-259).

MAY

Published: Revised TC 1-16, Employment of Aircraft Flares from Army Aircraft; revised ASubjSch 1-12, Visual Communications (Aviation).

JUNE

MAJ Howard J. Stiles article "The Road to Success" published in Army Aviation Magazine.

JULY

Published: Change 1, FM 1-40, Attack Helicopter Gunnery; revised ATP 1-47, Aviation Company, Separate Infantry Brigade (TOE 1-47); Change 1, AIT 1-47, (same as ATP title).

SEPTEMBER

Published: Change 3, TM 1-260, Rotary Wing Flight; revised TC 1-34, Qualification Training in Army Aircraft; revised ASubjScd 1-2, Establishment and Security of Army Airfields and Heliports; Change 1, ASubjScd 1-8, Aerial Observer Training; revised AIT 1-58, Aviation General Support Company, Combat Aviation Battalion (TOE 1-58 and 1-78).

OCTOBER

Published: Supplement 1, ST 1-100-2, Army Aviation Common Subjects: Noncommissioned Officer Education System.

NOVEMBER

Published (In process, DA): Change 2, FM 1-80, Aerial Observer Training.

SIGNIFICANT PROJECTS:

In April, Chief of Staff Forum for Center Commanders: This first-of-kind project was initiated by the Chief of Staff, DA. Talking papers on 7 topics were completed by the DD&P Division in July, directed toward DA goals, including helicopter instrument trainer, safety program, R&D, air portability of airmobile division, force structure effects on Army Aviation TOE, VNAF aviation training program, and proponency for development of airmobility doctrine. Basis of project was CONARC message of 27 Mar 70, with forum to be held 19-20 Aug at National War College, with CofSA desiring to hear broad issues presented by commanders themselves.

In October, MAJ Forte completed the project entitled "IBCS: Integrated Battlefield Control System." This was a position paper and correspondence prepared for MG Oden to MG Norton, Deputy Director, Project MASSTER, Ft Hood, Texas, and is related to MAJ Forte's study on the Aviation Battalion Operations Center (BOC), which was attached to the correspondence, and included computerized capability for integration of Army Aviation tactical operations in support combat arms.

AIRCRAFT ACCIDENT INVESTIGATION BOARD

ACCOMPLISHMENTS:

During the year, the USAAVNC/S Aircraft Accident Investigation Board investigated 68 aircraft accidents. Nine of these accidents involved 19 fatalities. The total estimated cost for repairs for aircraft involved in these accidents was \$7,241,393.70.

In August 1970, the Commanding General approved the transfer of the Aircraft Accident Investigation Board functions and responsibility from ACofS, G3, to the Assistant Commandant, USAAVNS. The transfer of this function provides better command and staff knowledge of Aircraft Accident Investigation Board findings and more effective implementation of recommendations made by the board.

CHAPTER 3



USAAVNC/S SUPPORT UNITS

USAAVNC MEDICAL DEPARTMENT ACTIVITY



MISSION:

Provide health services to authorized personnel at Fort Rucker, Alabama, and satellite activities, including inpatient and outpatient medical care and treatment to active duty and retired military personnel, their dependents and other people as authorized by DA; dental care and treatment to military personnel, and emergency dental care/or dental care to dependents; Veterinary food inspections, animal care and zoonotic control; and Preventive Medicine Services. Also perform other medical and dental missions as assigned.

ORGANIZATION:

The provisional status of the MEDDAC was eliminated in March. Concurrently with this action the US Army Dental Activity was organized as a sub-element of the MEDDAC. The DA directed implementation of CIMS had no impact on the organizational structure of the MEDDAC, however, the CO, MEDDAC was elevated to directorate level and designated as Director, Medical Activities.

The DA approved TDA received in October 1970 reorganized the Social Work Service as a separate organizational entity rather than as a service within the Department of Neuropsychiatry as previously recognized.

STAFFING:

The following personnel assumed key staff positions during the year:

LTC Carshal A. Burris, Jr., MSC, Executive Officer/Chief, Administrative Services.

LTC Helen R. Jezouit, ANC, Chief, Nursing Service.

LTC Reinhold H. Hinz, MC, Chief, Department of Surgery.

MAJ Robert R. Campbell, MC, Chief, Radiology Service.

MAJ John R. Hollister, MC, Chief, Pediatric Service.

MAJ Charles L. Jacobson, MC, Chief, Department of Medicine.

MAJ Gareth R. P. Johnson, MC, Chief, Pathology Service.

MAJ Jesse I. Palmer, MC, Chief, Obstetrics and Gynecology Service.

MAJ Walter Smithwick, III., MC, Chief, General Surgery Service.

MAJ James I. Urbach, MC, Chief, Orthopedic Service.

CPT Gary P. Clinton, MSC, Chief, Pharmacy Service.

CPT Avida M. Ross, AMSC, Chief, Food Service Division.

Due to the increased workload generated during the year the authorized staffing of the MEDDAC was increased by 39 spaces. Present recognized space requirement is 580, consisting of 139 officers, 249 enlisted personnel and 192 civilian personnel.

In order to provide the required professional support during the July-August period when the professional complement is normally at a low ebb, ten physicians and twelve dentists were assigned to the MEDDAC direct from civilian life. The MEDDAC was tasked

with the mission of providing the equivalency of the Basic AMED Course to these officers.

INPATIENT MEDICAL CARE

In order to provide a four bed intensive care capability for cardiac patients, plans were completed for the installation of the necessary monitoring equipment, contracts were let for procurement of the equipment, and extensive qualification training has been completed by selected nursing service personnel.

Due to the increased inpatient load anticipated during the November-December period an additional expansion ward was put into operational condition bringing to six the number of expansion wards available for occupancy in the cantonment hospital.

OUTPATIENT MEDICAL CARE

To provide a more effective utilization of medical resources the post military sick call operation was consolidated in February. Three dispensaries were closed and all sick call support was provided in the Outpatient Clinic, USLAH. Both the efficiency and the quality of care were increased by providing two physicians to screen and eight physicians to provide additional treatment with the immediate access to diagnostic facilities.

In February an adult walk in clinic was established which permitted adults to obtain non-emergency medical care without an appointment. This procedure greatly reduced the waiting time for appointments in the outpatient clinic as well as reducing the numbers of patients visiting the emergency room for non-emergency service. In October a physician screening or triage process was established in the adult walk in clinic which has further increased the efficiency of operation and permits more patients to be seen in the walk in clinic in a more timely manner.

The Annual Influenza Program was completed in October with the immunization of some 8500 individuals.

With the incidence of positive TB reactors among flying personnel, a study was undertaken to determine the effects of INH therapy on flying personnel. This study is progressing according to protocol and the anticipated results are most favorable.

DENTAL ACTIVITY

The Preventive Dentistry Program was fully implemented during the year. As a part of National Children's Dental Health Week dental officers visited the Fort Rucker Elementary School, gave lectures on proper oral care and some 1800 preventive dentistry kits were distributed to the students. Lectures were given to several PTA groups. During the months of March and April and September and October the first and second Fort Rucker Flouride Self Treatment Programs were conducted. Some 20,000 active duty and some 1400 dependent students were treated. Also during the year a number of Preventive Dentistry Displays were constructed for use in various military and public lectures and exhibits. Plans have been under study to carry the preventive dentistry program to active duty personnel over age 25.

VETERINARY ACTIVITY

In order to provide a better service to its patrons, the Small Animal Clinic has been completely renovated and modernized.

A more effective method of recording inspections was initiated during the year. The new inspection report insures a consistency of inspections, provides a more effective means of comparing inspections, and is more beneficial to the supervisor of the activity inspected.

PREVENTIVE MEDICINE ACTIVITY

In addition to the normal concerns of sanitation, food service inspections, water surveillance, immunization programs, maternal and child health programs, and occupational health programs, the Preventive Medicine Activity in conjunction with other USLAH activities was responsible for the screening of some 20,000 active duty military, dependents and civilian employees for tuberculin sensitivity. After the positive reactors had been identified, the Army Health Nurse was tasked with the responsibility to follow approximately 430 of these individuals through a one year period of prophylaxis.

PLANS, OPERATIONS AND TRAINING

All of the contingency plans to include the hospital mass casualty plan were revised during the year. A modified CPX was conducted in December to review the provisions of the disaster plan. An Exercise Directive was published for an FTX which will test the mass casualty plan in January 1971.

During the year the USLAH support elements for the Center NAICP were tested on three occasions. The USLAH Hurricane Support Plan was exercised on one occasion.

The 427th Medical Company (Ambulance) participated in Reforger II during the October-November period.

During the year there was tremendous emphasis placed on training requirements. The following training accomplishments are worthy of note:

1. 70 hour basic officer orientation for Medical and Dental Corps officers.
2. Concentrated unit training program and ATT for 427th Medical Company.
3. Annual range firing and CBR orientation for all assigned personnel.
4. Phase II training for selected medical MOS awarding programs conducted in conjunction with the Medical Field Service School and the John F. Kennedy Special Warfare Center.
5. Support of active duty summer training for four reserve component medical units.
6. Conducting a portion of the mandatory drug abuse training program of the USAAVNC.

CONCERN FOR PATIENTS

A program was initiated during the year to improve the patient-staff relationship by emphasizing the need for the staff to demonstrate concerned care for the patients. The goal of the program is to make the staff members more conscious of the patient's needs, and to treat him courteously and with due respect. The US Army Heraldry Unit has approved the crest for US Lyster Army Hospital. The approved Motto for Lyster Army Hospital is "Concerned Care."

KEY STAFF VISITS

BG Manley G. Morrison, MSC, visited the USAAVNC on 17-18 March in his official capacity as Chief, Medical Service Corps.

Colonel William A. Bredenstine, VC visited the MEDDAC in May in his capacity as CONARC Staff Veterinarian.

Colonel Marilyn Stevens, ANC, visited the USLAH in August and September in her capacity

as Chief Nurse, TUSA.

BG James E. Hughes, MC, Reserve Officer, visited USLAH in August in his capacity as Third Army Consultant for Pediatrics.

Colonel John R. Frost, DC, visited the USA Dental Activity in September in his capacity as Dental Surgeon, TUSA.

Colonel C. W. Sargent, MC, visited the MEDDAC in September in his capacity as TUSA Surgeon.

HEADQUARTERS COMMAND

ORGANIZATION

Headquarters Command consists of the following units:

Headquarters Company Number 1
Headquarters Company Number 2
Headquarters Company (WAC)
Casual Company

Attached units:

141st Military Police Company
98th Army Band
123rd Ordnance Detachment (EOD)

MISSION

To provide Command and Control over units assigned and attached to HQ Command including responsibilities for Administration, Rations, Quarters, Training, and Military Justice.

To provide logistical support to the USAAVNC.

To provide assistance to Class II activities as directed.

PERSONNEL

Average strength throughout the year was as follows:

	OFF	WO	EM
Authorized	20	2	865
Assigned	21	4	1183
Attached	0	0	747
Total	21	4	1930

Commanding Officers for CY 71 were:

LTC Jack D. Kincaid - 1 January - 6 January
LTC Bruce B. Campbell - 7 January - 31 December

Command Sergeant Majors for the year were:

CSM Elden R. Blazer - 1 January - 12 August
CSM August A. Myszka - 13 August - 31 December

EVENTS

On 1 August 1970, USAAVNC Special Troops was reorganized to become Headquarters Command.

Under the reorganization, Headquarters and Headquarters Company became Headquarters Company Number One; Technical Support Company became Headquarters Company Number Two; the WAC Detachment became Headquarters Company (WAC). Also, Headquarters Commandant relinquished control of Billeting to DIO and relinquished control of the FROOM and FRNCOOM to DPCA.

HEADQUARTERS COMPANY NUMBER ONE

Commanding Officers for CY 70 were:

MAJ Robert C. Thornton 1 January to 1 June
CPT Edwin R. Tatum 1 June to 31 December

First Sergeants for CY 70 were:

MSG Thomas E. Hood 1 January to 30 April
1SG Ronald L. Tuthill 30 April to 31 December

Personnel status of Headquarters Company Number One as of 31 December is as follows:

	Authorized	Assigned	Attached
Officer	2	2	0
WO	0	2	0
Enlisted Men	335	323	170

HEADQUARTERS COMPANY NUMBER TWO

Commanding Officers for CY 70 were:

CPT John W. Weaver 1 January to 26 January
CPT Bobby R. Allen 26 January to 15 July
CPT Robert L. Merrifield 15 July to 31 December

First Sergeants for CY 70 were:

1SG Chester A. Roscoe 1 January to 29 June
1SG Marcus E. Hazel 29 June to 22 September
1SG George H. Jordan 22 September to 31 December

Personnel status of Headquarters Company Number Two as of 31 December is as follows:

	Authorized	Assigned	Attached
Officer	2	4	0
WO	0	0	0
Enlisted Men	331	606	306

Headquarters Company Number Two achieved an excellent rating on its Annual General Inspection in April and also received excellent on its Command Material Maintenance Inspection in August.

In a year of outstanding reenlistment rates for Hq Command, Hq Company #2 led the way, each month obtaining well over 100% of its reenlistment quota.

HEADQUARTERS COMPANY (WAC)

Commanding Officers for CY 70 were:

CPT Sara J. Getzin 1 January to 25 January
CPT Patsy D. Null 25 January to 4 August
CPT Patricia M. Vallentine 4 August to 31 December

SFC Pamela B. Gibson was First Sergeant throughout CY 70.

Personnel status of Headquarters Company (WAC) as of 31 December was as follows:

	Authorized	Assigned	Attached
Officer	2	2	5
Enlisted Women	4	7	149

Headquarters Company (WAC) was the leading contributor to the monthly Fort Rucker Blood Drive.

CASUAL COMPANY

Commanding Officers for CY 70 were:

CPT Albert F. Kaleta	1 January to 27 July
CPT Michael L. Skinner	27 July to 31 December

First Sergeants for CY 70 were:

1SG Conrad Moses	1 January to 14 April
1SG Clayton M. Jorgenson	14 April to 31 December

Personnel status of Casual Company as of 31 December is as follows:

	Authorized	Assigned	Attached
Officer	2	2	0
Enlisted Men	23	28	55

During CY 70, Casual Company operated a Special Processing Detachment to process personnel arriving at Fort Rucker or apprehended by authorities in the local area in an AWOL or Deserter status. The Special Processing Detachment prepared 68 Summary, 89 Special, and 30 General Courts-Martial during CY 70. Also, 83 Board actions resulting in administrative discharges were prepared.

By direction of Third U.S. Army, the Special Processing Detachment began phasing out effective 1 October with a target date of 31 December for completion of all cases.

141st MILITARY POLICE COMPANY

MISSION

To provide Military Police services to Fort Rucker, Alabama and to provide assistance to the installation commander in maintenance of order and military discipline among military personnel within the military reservation and in civil communities adjacent to the reservation. In addition, the 141st provides the following police services:

- 1) Motorized Patrol Section
- 2) Provost Marshal Investigators
- 3) Traffic Section
- 4) Military Police Station Personnel
- 5) Physical Security Section
- 6) Post Vehicle Registration
- 7) Game Warden Section

123rd ORDNANCE DETACHMENT (EOD)

MISSION

To detect, render safe, recover, evaluate, and dispose of U.S. and foreign unexploded ordnance in Third Army area including nuclear which has been fired, dropped, or placed in such a manner as to constitute a hazard to installations, personnel, or material

- to provide explosive ordnance reconnaissance instructor
- to provide salvage offices with technical assistance
- to provide demolition support
- to provide Provost Marshal and Intelligence Corps with assistance
- to provide technical assistance to range officers
- to assist technical intelligence officers in neutralizing and inerting explosive items
- to furnish EOD support to Maxwell AFB and Gunther AFB as required

PERSONNEL

Commanding Officers during CY 70 were:

CPT James H. Kahlke, Jr. 1 January to 15 October
2LT John A. Stahl 15 October to 3 December

First Sergeant for the entire calendar year 1970 was:

MSG Edeard A. Greer

Personnel status of the 123rd Ordnance Detachment as of 31 December 1970 was as follows:

	Authorized	Assigned	Attached
Officers	1	1	0
Enlisted Men	10	11	0

EVENTS

In January, the unit provided EOD support in clearing Morgan State Park, Gulf Shores, Alabama of hazardous Civil War ordnance. In July, the unit provided EOD support for the AUSA Symposium at Fort Rucker. In August the 123rd placed first among Third Army EOD units for the conduct of its annual training test. In September, the unit participated in the USCONARC ATT at Redstone Arsenal, Alabama, and in October the unit completed the 1970 NETEX exercise at Sandia Base, New Mexico.

UNITED STATES ARMY AVIATION SCHOOL BRIGADE

HEADQUARTERS

MISSION:

To exercise command and control over all assigned battalions, to provide administrative and logistical support to all assigned units and the Student Aviator Battalion. Provide logistical support to all departments of the United States Army Aviation School. Direct mandatory training, intelligence activities, and security within the Brigade. Provide POR training for all overseas replacements departing Fort Rucker.

ORGANIZATION:

The United States Army Aviation School Brigade consists of the following units:

Headquarters Company
First Battalion
Third Battalion
Fourth Battalion

Sixth Battalion is attached for administrative and logistical support.

PERSONNEL:

Commanding officers for CY 70 were:

Colonel Earl L. Russell, Jr. - through 29 December
Colonel Paul C. Smithey - 29 December -

Command Sergeant Majors for the year were:

CSM Robert L. Roots - through 21 April
CSM Glenn E. Owens - 21 April -

STRENGTH:

	OVERHEAD	
	<u>OFF</u>	<u>EM</u>
Authorized	80	216
Assigned	76	319

ACCOMPLISHMENTS:

In March the Brigade underwent its annual IG inspection and was awarded an overall rating of "excellent."

In May the Officers Wives Club and NCO Wives Club gala 49'er Party, supported by the Brigade, netted over \$40,000 for worthwhile projects.

On 18 May, the USAAVNS Regiment was redesignated the USAAVNS Brigade, with corresponding redesignations of subordinate units.

HEADQUARTERS COMPANY

ORGANIZATION:

In January, USAAVNS Special Training Element, Keesler Air Force Base, Mississippi, was redesignated as Headquarters Company and placed under the control of the then First Battalion (Staff and Faculty)(Provisional) with the mission of providing all company-level

administration pertaining to support personnel assigned and attached elsewhere for duty.

On 18 May, under the reorganization and redesignation, Headquarters Company was put under the direct control of the Brigade, picking up approximately 2,000 officers on its morning report from the old Headquarters and Service Company.

PERSONNEL:

Commanding Officers for CY 70 were:

Captain Gerald L. Kowieski - through 20 July
Captain Daniel P. Murphy, Jr. - 20 July -

First Sergeants for the year were:

LSG Donald L. Wrinkle - through 1 February
LSG John R. Spade - 1 February - 10 November
LSG Bobby W. Dobbs - 10 November -

FIRST BATTALION

MISSION:

To provide command and control, logistics, administrative and military justice for all assigned and attached personnel.

ORGANIZATION:

On 18 May, the First Battalion (Staff and Faculty) was redesignated the First Battalion and consists of the following units:

11th Company
12th Company
13th Company
14th Company
15th Company

PERSONNEL:

Commanding Officers for CY 70 were:

LTC Joseph R. Poole - through 7 August
LTC R. Joe Rogers - 7 August -

Command Sergeant Majors for the year were:

CSM Glenn E. Owens - through 21 April
CSM Floyd C. Landrum - 21 April -

ACCOMPLISHMENTS:

In March the Battalion was awarded an overall rating of "excellent" upon the completion of the companies' AGI's.

11TH COMPANY

ORGANIZATION:

On 18 May, Headquarters and Service Company was redesignated the 11th Company.

PERSONNEL:

Commanding Officers for CY 70 were:

Major John A. Smith - through 10 August
Captain Dennis L. Griggs - 10 August -

First Sergeants for the year were:

LSG Robert W. Sherman - through 2 March
LSG Billy R. Lynn - 2 March -

ACCOMPLISHMENTS:

In March, the company received a rating of "excellent" on the AGI.

12TH COMPANY

ORGANIZATION:

On 18 May, Airfield Company was redesignated the 12th Company.

PERSONNEL:

Commanding officers for CY 71 were:

Captain Dante A. Camia - through 24 January
Captain David Anderson - 24 January - 1 December
Captain Audie L. Mays - 1 December -

First Sergeants for the year were:

LSG Robert W. Smith - through 18 March
LSG Elwood Sergeant - 18 March -

13TH COMPANY

ORGANIZATION:

On 18 May, First School Support Company was redesignated the 13th Company.

PERSONNEL:

Commanding officers for CY 70 were:

Captain George D. Singer - through 16 March
Captain George W. Sweat, Jr. - 16 March - 9 October
Captain Ronald J. Wimberley - 9 October -

First Sergeants for the year were:

LSG William G. Tulloch - through 9 October
LSG William J. Freeman - 9 October -

14TH COMPANY

ORGANIZATION:

In May, the Second School Support Company was redesignated the 14th Company.

PERSONNEL:

Commanding officers for CY 70 were:

Major Robert D. Arrington - through 23 March
Captain Garry R. Haynes - 23 March - 15 September
Captain Larry P. Palmer - 15 September -

First Sergeants for the year were:

LSG Thomas C. Merideth - through 29 September
LSG Robert A. Sayre - 29 September -

ACCOMPLISHMENTS:

In March the company received an overall rating of "superior" on the AGI.

15TH COMPANY

ORGANIZATION:

On 18 May, the Regimental Support Company was redesignated the 15th Company.

PERSONNEL:

Commanding officers for FY 70 were:

Captain Boyd E. King - through 1 July
Captain Frank T. Stankus - 1 July -

First Sergeants for the year were:

LSG Charles F. Crisp - through 18 May
LSG Charles R. McGinnis - 18 May -

ACCOMPLISHMENTS:

In March the company achieved a "superior" rating on the AGI. This was the second consecutive award.

Also in March the company moved to a new area after an extensive refurbishing of the billets.

THIRD BATTALION

MISSION:

To provide command and control, logistics, administration and military justice for all assigned and attached personnel.

ORGANIZATION:

On 18 May, the Third Battalion (Enlisted Student)(Provisional) was redesignated the Third Battalion. Present strength is 16 officers, 133 enlisted permanent party, 1286 enlisted students and 7 civilians. Subordinate units are:

31st Company 42d Company
32d Company
33d Company

PERSONNEL:

Commanding officers for FY 70 were:

LTC Donald D. Wilkes - through 18 December
LTC Stephen W. Stith, Jr. - 18 December -

Command Sergeant Major for the year was CSM Owen D. Wilkens.

ACCOMPLISHMENTS:

In March, Third Battalion achieved an overall rating of "excellent" on the AGI.

31ST COMPANY

ORGANIZATION:

On 18 May, the First Enlisted Student Company was redesignated the 31st Company.

PERSONNEL:

Commanding officers for CY 70 were:

CPT John D. Diggs - through 15 February
CPT John G. Heslin - 15 February - 14 August
MAJ John M. Hatcher - 14 August -

First Sergeants for the year was 1SG William A. Mott.

ACCOMPLISHMENTS:

The company shipped one class daily, five days per week, for the purpose of attending training in MOS's 67A (Aircraft Maintenance Apprentice), 93H (ATC Tower Operator), and 93K (ATC Enroute Specialist).

32D COMPANY

ORGANIZATION:

On 17 May, the Second Enlisted Student Company was redesignated the 32d Company.

PERSONNEL:

Commanding officers for CY 70 were:

MAJ Cline G. Cook - through 1 July
CPT Raymond G. Caryl - 1 July - 17 August
CPT Daniel S. Gressang, III. - 17 August -

First Sergeants for the year were:

1SG Robert A. Sayre - through 12 March
1SG William M. McConnell - 12 March - 6 July
1SG Willie B. Williams - 6 July -

ACCOMPLISHMENTS:

The unit received the Brigade Best Dayroom Award for seven consecutive months and the Brigade Best Dayroom Award for CY 70.

33D COMPANY

ORGANIZATION:

On 18 May the Fourth Enlisted Student Company was redesignated the 33d Company.

PERSONNEL:

Commanding officers for CY 70 were:

MAJ James A. Scott, III.	-	through 6 July
CPT Bobby L. Holland	-	6 July -

First Sergeants for the year were:

LSG Ralph Mosher	-	through 19 January
LSG George E. Chevalier	-	20 January - 23 October
LSG Alonzo C. Miller	-	23 October -

ACCOMPLISHMENTS:

During the first quarter of CY 70, twenty-one foreign students attended the 67A10 Aircraft Maintenance Apprentice Course.

42D COMPANY

ORGANIZATION:

On 18 May, the Seventh Enlisted Student Company was redesignated the 42d Company.

On 1 July, the company was removed from the command and control of the Fourth Battalion and placed in its present command.

PERSONNEL:

Commanding officers for CY 70 were:

CPT James M. Hibbs	-	through 1 July
CPT Dennis D. Redden	-	1 July - 5 November
CPT Jeremiah O'Fihelly	-	5 November -

First Sergeants during the year were:

LSG William M. McConnell	-	through 15 March
LSG Sherman F. Turner	-	15 March - 1 July
LSG Donald L. Knaust	-	1 July -

ACCOMPLISHMENTS:

In February, the unit received an overall rating on the AGI of "excellent."

Also, in February the first class of Air Traffic Control students graduated from that course which had been set up at Fort Rucker to train Army ATC Personnel.

FOURTH BATTALION

MISSION:

To provide command and control, logistics, administration and military justice for all

assigned and attached personnel.

ORGANIZATION:

On 18 May, the Fourth Battalion (Enlisted Student)(Provisional) was redesignated the Fourth Battalion and consists of the following units:

34th Company
35th Company
36th Company
41st Company
43rd Company

PERSONNEL:

Commanding officers for CY 70 were:

LTC Jackie M. Howard - through 18 December
LTC James T. McQueen - 18 December -

Command Sergeant Major for the year was:

CSM Alexander S. Anderson

ACCOMPLISHMENTS:

In February, the command had its annual IG inspection and received an "excellent" rating overall.

On 1 July the 35th and 43d Companies were formed and placed in operation. Ribbon-cutting ceremonies for their new buildings were held in September.

On 1 September the new Consolidated Mess #3 was officially opened.

34TH COMPANY

ORGANIZATION:

On 18 May, the Third Enlisted Student Company was redesignated the 34th Company.

PERSONNEL:

Commanding officers for CY 70 were:

CPT Bradley H. Petersen - 1 January - 15 May
CPT Douglas J. Martin - 15 May - 2 December
CPT Rex A. Roberts - 2 December -

First Sergeants for the year were:

LSG Samuel E. Perkins - 1 January - 17 February
ALSG SFC Howard J. Stone - 17 February - 17 March
LSG James E. Poole - 17 March - 19 July
LSG Clyde L. Pine - 19 July -

ACCOMPLISHMENTS:

The unit won the Battalion Best Unit Award for FY 70 after winning the monthly award six out of the twelve times.

35TH COMPANY

ORGANIZATION:

On 1 July the 35th Company was activated.

PERSONNEL:

Commanding officer from 1 July was CPT John P. LaSalle, Jr.

First Sergeant from 1 July was 1SG William R. Dunn.

ACCOMPLISHMENTS:

In September the new building for the company was officially opened in a ribbon-cutting ceremony. The building was later named Bartlett Hall in honor of SP5 Charles D. Bartlett who was killed in action in RVN on 8 August 1968.

36TH COMPANY

ORGANIZATION:

On 18 May the Fifth Enlisted Student Company was redesignated the 36th Company.

PERSONNEL:

Commanding officers for CY 70 were:

CPT Tommy L. Erby	-	through 9 February
CPT Michael W. Clowes	-	9 February - 18 September
CPT Harold B. Winters, Jr.	-	16 September -

First Sergeants for the year were:

MSG Timothy E. Crowley, Jr.	-	through 8 February
SFC Wesley V. Dubesar	-	9 February - 20 February
SFC Patrick J. Bourgeois	-	20 February - 26 March
1SG William J. Freeman	-	26 March - 27 April
1SG Bobby G. Jessy	-	27 April -

41ST COMPANY

ORGANIZATION:

On 18 May, the Sixth Enlisted Student Company was redesignated the 41st Company.

PERSONNEL:

Commanding officers for CY 70 were:

CPT John W. Findlater, Jr.	-	through 5 January
CPT William P. Friday	-	5 January - 6 July
CPT Elmer M. Armstrong	-	6 July -

First Sergeants for the year were:

1SG Raymond E. Fields	-	through 29 January
1SG Carlos N. McCarter	-	29 January -

ACCOMPLISHMENTS:

In February the unit was given an overall rating of "excellent" on the AGI.

43D COMPANY

ORGANIZATION:

On 1 July, the 43d Company was activated.

PERSONNEL:

Commanding officer from 1 July was CPT James R. Jarrett, Jr.

First Sergeant from 1 July was 1SG William M. McConnell.

ACCOMPLISHMENTS:

In September the new buildings were officially opened.

On 12 October, the unit received its first allied students, five NCO's from Thailand.

6TH BATTALION

ORGANIZATION: The Student Aviator Battalion was reorganized 18 May 1970. The Battalion became the 6th Battalion and the companies were redesignated as follows: 61st Warrant Officer Candidate Company, 62d Warrant Officer Candidate Company, 63d Warrant Officer Candidate Company, 64th Warrant Officer Candidate Company and 65th Officer Student Company.

The Battalion underwent further reorganization in December 1970, and the 64th Warrant Officer Candidate Company was deactivated. Deactivation was accomplished due to a reduced input of Warrant Officer Candidates.

PERSONNEL:

Commanding Officer for calendar year 70 was: LTC Russell C. Potter.

Command Sergeant Major for the year was: CSM Herbert L. Gunn.

ACCOMPLISHMENTS:

The Battalion was awarded the Minute Man Flag for the 4th successive year in December.

The Battalion was also awarded a trophy for best unit Christmas display.

61st COMPANY

ORGANIZATION: Commanding Officers for calendar year 70 were Major Kenneth L. Fitch - Jan 70 to Oct 70, and Major Frank S. Reece assumed command Oct 70.

ACCOMPLISHMENTS:

On 14 September the 61st Company successfully passed the Inspector General's inspection.

A total of 708 Warrant Officer Candidates was graduated as Warrant Officer Aviators during 1970.

62d COMPANY

ORGANIZATION: On 24 April 1970, the following change of command occurred:

Major Anthony Clemente relinquished command of the 62d Company and Major Jerry V. Holcombe assumed command of the Company.

ACCOMPLISHMENTS:

On 14 September 1970, the 62d Company successfully passed the Inspector General's Inspection.

A total of 660 Warrant Officer Candidates started training in the 62d Company and 575 were graduated as Warrant Officer Aviators during 1970.

63d COMPANY

ORGANIZATION:

Major Gary L. Williams assumed command of the 3d Warrant Officer Candidate Company, from Major Allen A. Bresette on 27 May 1970.

Major Samuel C. Allison assumed command of the 63d Company from Major Gary L. Williams on 2 September 1970.

ACCOMPLISHMENTS:

The 63d Company successfully passed the Inspector General's inspection on 15 September 1970.

The 63d Company graduated a total of 723 Warrant Officers from the Warrant Officer Candidate program during 1970.

65th COMPANY

ORGANIZATION:

Major Charles E. Beckel relinquished command of the 65th Company on 22 May 70 and Major Irwin S. Dierking assumed command.

ACCOMPLISHMENTS:

The 65th Company successfully passed the Inspector General's inspection on 17 September 1970.

The 65th Company graduated a total of 7068 students during the calendar year 70.

53D AVIATION BATTALION

ORGANIZATION:

The 53d Aviation Battalion consists of the following units:

Headquarters and Headquarters Company
1st Aviation Company
5th Infantry Detachment (Pathfinder/Airborne)
Battery H, 18th Field Artillery
Company E, 30th Infantry
72d Aviation Company (Air Traffic Control)
108th Quartermaster Company (Petrol Support)
416th Transportation Company

PERSONNEL:

Personnel status throughout the year was as follows:

Authorized	<u>1st Quarter</u>			<u>2nd Quarter</u>			<u>3rd Quarter</u>			<u>4th Quarter</u>		
	OFF	WO	EM									
	64	4	1331	64	4	1331	64	4	1331	64	4	1331
Assigned	49	11	1794	54	16	1348	55	17	1163	53	15	1331

Commanding officers for CY 70 were:

LTC William A. Stanaland - January - 31 December.

Command Sergeant Majors for the year were:

CSM Jimmy J. Reed - 1 January 70 - 5 September 70

CSM L. N. Emmons - 5 September 7 - 31 December 70

HEADQUARTERS & HEADQUARTERS COMPANY

MISSION:

The mission of HHC, 53d Avn Bn is to provide command, control, staff planning and administrative and logistical support for four to seven units in support of the United States Army Aviation School and Center.

ORGANIZATION:

HHC successfully completed the command maintenance management inspection for 1970 in October with a 93% average score overall. HHC received a Third Army Certificate of Merit from LT Gen Albert O. Connor, Commanding General, Third United States Army.

PERSONNEL:

Previous commanders and first sergeants during CY 70 were CPT Robert E. Jones, Jr. and CPT Barry M. Brown and 1SG John Davis.

Present commander and first sergeant are CPT George J. Geiger and 1SG Lawton Turner.

	<u>ASSIGNED</u>	<u>ATTACHED</u>
Officer	14	0
Warrant Officer	3	0
Enlisted Men	118	36

BATTERY H, 18th FIELD ARTILLERY

MISSION:

The Primary mission of Battery H is support of tactical training of the USAAVNC. Additional responsibilities include defense of key facilities, accomplishment of the ground defense mission assigned the 53d Aviation Battalion and to provide emergency teams and forces in support of Domestic Emergency Operations. Battery H also has training objectives to complete Advanced Individual Training, basic unit training phase at the section and platoon level and mandatory training for National Guardsmen, Army Reserves and Regular Army personnel.

PERSONNEL:

Battery H commanders for CY 70 were:

CPT Gerald P. Bijold - 17 December 1969 - 11 July 1970
 CPT Fred R. Hutson - 11 July 1970 - 4 January 1971

Battery H First Sergeant was:

1SG Furman F. Harrison - 26 September 1969 -

Personnel status of Battery H as of 31 December is as follows:

	Authorized	Assigned	Oper	Eff
Officer	7	7	6	6
EM	91	88	75	75

ACCOMPLISHMENTS:

The following multi-gun salutes were fired by Battery H during this year:

13 January - 19 gun salute in honor of General Groven, the Belgium Army Chief of Staff.
 22 September - 19 gun salute in honor of the retiring General Delk M. Oden.
 3 November - 19 gun salute in honor of General Minbashian the Commanding General of the Imperial Iranian Ground Forces.
 19 November - 19 gun salute in honor of General Chapman, Commandant of the Marine Corps.
 7 December - 19 gun salute in honor of General Kinugasa, Chief of Staff of the Japanese Ground Self Defense Force.

COMPANY E, 30th INFANTRY

MISSION:

The basic mission of Company E is to support the USAAVNS by supplying personnel to portray "aggressors" in the Escape and Evasion problem presented by the Survival Committee every two weeks.

PERSONNEL:

Company E commanders for CY 70 were as follows:

CPT Schultz - 1 Jan 70 - 21 Feb 70
CPT Darrah - 21 Feb 70 - 24 Aug 70
CPT Wiley - 24 Aug 70 - 31 Dec 70

Company E First Sergeant was:

1SG Giffard - 1 Jan 70 - 31 Dec 70

PERSONNEL STRENGTH:

	Authorized	Accountable	Operating
Officers	6	4	4
EM	174	192	118

ACCOMPLISHMENTS:

Company E Honor Platoon has taken part in over one hundred and fifty Burial details from 1 January 1970 to 1 December 1970, and did receive several letters of appreciation for their appearance and devotion to duty from the next of kin.

Company E also took part in an air mobile assault demonstration, the latter half of July 1970. The event was AUSA Say at Fort Rucker, Alabama. The company under the direction of CPT Darrah and 1SG Giffard demonstrated how an Infantry unit is most effectively deployed in today's action Army.

416th TRANSPORTATION COMPANY

ORGANIZATION:

During May and June, August and September, November and December this company supported the National Guard by training personnel on the following Military Occupation Specialties:

63A10 - Automotive Maintenance Apprentice
64A10 - Light Vehicle Driver
64B20 - Heavy Vehicle Driver

During the months of June to the present this company supplied drivers and vehicles in support of refueling helicopters in Eglin Air Force Base in Florida. Also during the months of August and September this company supported and supplied T42 aircraft with fuel in Bainbridge, Georgia.

PERSONNEL:

Company commanders during the CY 70 were:

CPT Sidney L. Barnes - 1 January - 8 August
CPT Clifford E. Letts, Jr. - 8 August - 31 December

Company First Sergeants were:

1SG William H. Sanders - 1 January - 1 October
1SG Richard G. Crowell - 2 October - 31 December

During the year, 416th Transportation Company assigned strength was as follows:

	Officer	Warrant Officer	Enlisted Men
As of 1 January	5	1	198
As of 31 December	5	1	177

ACCOMPLISHMENTS:

This company was designated in charge of Operation Santa Claus for the second year in a row. The men collected toys from nearby areas and repaired them. Once they were repaired, they were distributed to the needy children. CPT Clifford E. Letts, Jr. Company Commander at the time sent out personal letters to all the near by towns asking for contributions of repairable toys. All of the men involved in this needy cause received letters of commendation from LTC William A. Stanaland, the Battalion Commander for a job well done.

108th QUARTERMASTER COMPANY

MISSION:

The 108th Quartermaster Company continued to provide rapid refueling support to the United States Army Aviation School/Center. The refueling mission at Troy Municipal Airport was eliminated during the first part of 1970. This unit continues its support at Eglin Air Force Base, Florida and at Fort McClellan, Alabama. There has been an additional mission assigned to the unit, to perform rapid refueling at Fort Benning, Georgia. The 108th has expended in excess of 550,000 gallons of fuel for Center/School support. The company also provided vehicle and manpower support as required to Center/School.

PERSONNEL:

Commanders for the CY 70 were:

CPT Van B. Quick - 1 January - 28 February
CPT Frank J. DeFrancesco - 28 February
CPT Robert W. Achee - 1 October -

First Sergeants for CY 70 were:

1SG James Woodard - 1 January - 31 March
1SG Donald C. Bankston - 1 April -

	Officer	Enlisted Men
Authorized strength	5	184
Assigned strength	6	176

ACCOMPLISHMENTS:

In July the 108th Quartermaster Company conducted its Annual Training Test at Fort Rucker, Alabama. The company was given a satisfactory rating in all phases of the test. The company's ability to perform its assigned mission was thoroughly demonstrated.

1st AVIATION COMPANY

MISSION:

To provide direct support to the Department of Tactics, United States Army Aviation School.

ORGANIZATION:

The regular mandatory training was conducted during the period 1 January to 31 December to include POR and other integrated training. There were 54 individuals undergoing OJT/AIT graduates during the CY 70.

PERSONNEL:

Commanders for CY 70 were:

MAJ Benjamin B. Powell, Jr. - January - March
MAJ Willard M. Onellion - March - September
MAJ Jay B. Bisbey - September -

Personnel status as of 31 December is as follows:

	Authorized	Accountable	Actual
Officers	11	12	12
Warrant Officers	4	6	6
Enlisted Men	409	341	341
Civilians	2	1	1

72d AVIATION COMPANY (ATC)

MISSION:

The present actual mission of the 72d Aviation Company (ATC), is twofold; first the unit operates "Hub Control" located at Cairns Army Airfield, which is an air traffic control center for simulated IFR student training flights; secondly, the 72d Aviation Company (ATC) provides personnel, vehicles and other equipment in support of the USAAVNS and the 53d Aviation Battalion.

PERSONNEL:

Commanders for the CY 70 were:

MAJ Donald L. Flohe - 29 October - 18 April
MAJ Donald A. Nielsen - 18 April - 12 December
MAJ Cornell L. Ullman - 12 December

First Sergeants for the CY 70 were:

1SG John P. Thompson - 12 September 1969 - 6 May 1970
1SG Britt Adair - 6 May -

Assigned strength for CY 70 are as follows:

	Officers	Warrant Officers	Enlisted Men
As of 1 January	3	3	180
As of 31 December	5	2	117

5th INFANTRY DETACHMENT (PFDR/ABN)

ORGANIZATION:

On 27 March the Detachment was transferred from the operational control of Company E, 30th Infantry to 1st Aviation Company commanded by MAJ Willard M. Onellion.

On 9 November the Detachment was established as a separate unit with CPT Jerald D. Richardson as Detachment Commander.

PERSONNEL:

Commanders for CY 70:

CPT R.H. Schultz, Company E - 1 January - 21 February
CPT S.C. Darrah, Company E - 21 February - 27 March
MAJ W.M. Onellion, 1st Aviation Company - 27 March - 25 September
MAJ J.B. Bisbey, 1st Aviation Company - 26 September - 8 November
CPT J.D. Richardson, 5th Inf Det - 9 November

First Sergeants for CY 70:

1SG R.E. Giffard, Company E - 1 January - 27 March
1SG C.L. Bell, 1st Aviation Co. - 27 March - 6 April
1SG R.C. King, 1st Aviation Co. - 7 April - 8 November
1SG K.D. Davis, 5th Inf Det - 9 November - 15 November
1SG Spade, 5th Inf Det - 15 November -



83D ENGINEER BATTALION

BRIEF HISTORY

Officially activated as the 83d Engineer Battalion (Construction) at Fort Sill, Oklahoma, on 25 May 1949, the history of the 83d Engineer Battalion dates back to its beginning as the First Battalion, 345th Engineer Regiment (General Service) which was organized on 29 July 1921.

The unit saw overseas action in the Mediterranean Theater during World War II and was twice awarded the Meritorious Unit Streamer (with star) for outstanding service throughout Italy and the European Theater. Due to its service with the Fifth United States Army and the ensuing lineage, three campaign streamers have been passed on to members of the 83d Engineer Battalion.

During a period of inactivity following World War II, the 345th Engineer General Service Regiment was redesignated on 30 January 1947 as the 49th Engineer General Service Regiment. Shortly thereafter, the 49th Regiment was divided into two separate engineer battalions. On 25 May 1949, the 1st Battalion, 49th Engineer Regiment was officially designated 83d Engineer Construction Battalion. The remainder of the 49th Regiment was disbanded on 15 July 1953.

After initial training and service at Fort Sill, the 83d Engineer Battalion received movement orders to the European Command. While enroute from New York a change in orders was received and the battalion was diverted and landed in France on 20 May 1951. During the next 17 years the battalion served at several installations in France. Its missions included construction projects throughout the European Command, extending at times from the Atlantic Coast at Captieux to the Iron Curtain at Fulda.

While at Captieux Military Post, the 83d Engineer Battalion was responsible for accomplishing a feat that many before failed in doing, the restoration of approximately 10,000 acres of marsh land surrounding the post. As early as 1914, Australian Combat Engineers, realizing the tactical importance of the area, failed to drain the area which consisted of sandy loam and a two foot water table. At the end of World War I, French contractors again tried to drain the area, but at best left the terrain covered with ineffective ditchways. During their occupation during World War II, the Germans attempted to clear the land on two separate occasions, but were not successful either time. Once again, after the French liberation, American and French engineers made another futile attempt and the area was left alone until the 83d Engineer Battalion accomplished the task in 1951.

Among the other projects completed in 1951 was the remodeling of US Forces buildings at Poitiers, additional land clearing in Chinon and the construction of billets and recreational facilities in Bussac.

In 1952, major projects including road and bridge building, prefab housing, hospitals, athletic fields, storage areas for gas, supplies and ordnance troop housing, and general post improvements and rehabilitation was effected at Orleans, La Rochell, Verdun, Bordeaux, Bassens, Ingrandes, Cosne, La Bracoone, Pointe de Grave and Landes de Bussac.

During the years of 1953 through 1959, the 83d Engineers added to their already excellent accomplishments with the construction of several hospitals, permanent and prefab housing projects, numerous schools, additional country-side roads as well as resurfacing of already existing roadways, post exchanges and commissaries, drainage and sewer lines, warehouses, floating and permanent bridges, and general land clearing. In 1959, the battalion headquarters was relocated from Fondes de Bussac to Fontenet, and the unit increased in size to 12 assigned and three attached units, incorporating a total of 1,600 officers and enlisted men and over 400 civilian employees.

During the periods 1960 - 1966 the unit continued to grow in size and was responsible for major construction projects for both American and Allied Forces. In 1963, 83d Battalion Headquarters was moved from Fontenet to Chinon.

In January 1967, the Battalion moved from France, along with all other US Forces in operation FRELOC under the NATO withdrawal program, to Heilbronn, West Germany, and was reassigned to US Army Engineer Command, Europe.

Late in 1967, the 83d Battalion was reassigned to CONUS under operation REFORGER, and by August, the main body of the unit was relocated at Fort Riley, Kansas, while remaining under operational control of CINSUSAREUR and still retaining its' committment to NATO for crisis oriented operations.

While at Fort Riley, the 83d Engineer Battalion concerned itself with the maintenance and construction of bridges and roads, and the general welfare of the post. The unit was also given the mission of rehabilitating buildings at Fort Sheridan, Illinois, in the latter part of 1968. The work was of such high caliber that the post commander wrote two separate letters of commendation.

On 19 July 1969, the 83d Engineer Battalion officially made Fort Rucker its home. On 1 October, Firefighter Company (Provisional) was attached to the 83d. From October through December an intensified training program was initiated to provide initial training of newly assigned, unqualified personnel and to provide refresher training for NCO's.

ORGANIZATION

The 83d Engineer Battalion consists of a headquarters and headquarters company, A company (equipment maintenance), and B, C, and D companies each composed of two vertical construction platoons and one earth moving platoon. Firefighter Company (Provisional), is attached to the 83d for billets, logistics and discipline. They are under the Technical Control of the Directorate of Facilities and Engineering. The Firefighter Company consists of six platoons: a fixed field support platoon, two stagefield support platoons, a drivers platoon, a school platoon, and a headquarters platoon.

In addition to the above accomplishments at Fort Rucker, the 83d Engineers also sent two task forces to other posts. Task Force Charlie was sent to Fort McClellan on 13 April and Task Force Delta departed for Third Army Recreation Area, Lake Allatoona, Georgia.

The 83d Engineer Battalion was responsible for the completion of the following projects:

Fort Rucker

Improvement of PCPT area and bayonet course.

Improvement of pistol range.

Record range improvement.

Land clearing between the EM beach and Wildlife Area.

Construction of a New Training survival area.

OFF POST

Cusseta, Ga., Removal of station property. (decca ground station)

Quitman, Ga., Removal of station property. (decca ground station)

Hawkinsville, Ga., Removal of station property. (decca ground station)

Columbus, Ga., GCA Tower construction.

Cambellton, Fla., GCA Tower construction.

Elba, Ala., Dam construction for Girl Scout Camp.

ACCOMPLISHMENTS

Eufuala, Ala., Construction of trace for an access road at Lake Walter George Recreation Area.

Third US Army Recreation Area, Lake Allatoona, constructed comfort station, constructed road network in picnic table area, resurfaced parking lot, constructed two (2) concrete pads for pavilions, repaired beach erosion, constructed helipad, constructed porch on existing building, repaired and lengthened beach retaining wall.

Fort McClellan, Ala., Operation of Quarry, repaired 75 miles of road, constructed flood damage control system, repaired flood damage to main post and outlying area. Boarding unoccupied buildings, construction of refuse dump and construction of fence along rail-road right of way. Cleared 1200 meters of stream banks of brush.

FIREFIGHTER COMPANY

MISSION

The mission of the Firefighter Company is to provide firefighter personnel as required by the US Army Aviation Center/School Engineer.

PERSONNEL TREND

1 January 1970

	<u>OFF</u>	<u>WO</u>	<u>EM</u>
Authorized	2	1	220
Assigned	2	1	372

31 December 1970

	<u>OFF</u>	<u>WO</u>	<u>EM</u>
Authorized	2	1	260
Assigned	1	1	328
STUDENTS: INPUT	288	COMPLETED OJT	253

Firefighter Company Commanders during 1970 were:

CPT Earl Massey 1 January - 3 May

CPT Michael Southerland 4 May

Firefighter Company First Sergeants during 1970 were:

SFC Isrel Gafford Jr. 1 January - 11 August

1SG Roscoe Batton 12 August

ACCOMPLISHMENTS

Reduced firetruck deadline from 65% to 20%, enabling more effective support to be provided to USAAVNS. This reduced mission cancellations by 50% per quarter.

Reorganized Dispatch and Return of TDY personnel to and from outlying stagefields to effect annual savings of \$6,000.

Reorganized issue and turn-in of Firefighter clothing, saving \$20,000 annually.

Completed and submitted Staff Study to justify the establishment of a TDA Unit, which will provide the establishment of administrative control over assigned personnel to improve quality of administrative support they receive.

Supported community fire departments in fighting fires at Troy Motel, Troy, Alabama, and Elementary School, Enterprise, Alabama.

Arranged for and established inclement weather buildings at all stage fields for use by Firefighting-Crash-Rescue personnel.

CHAPTER 4

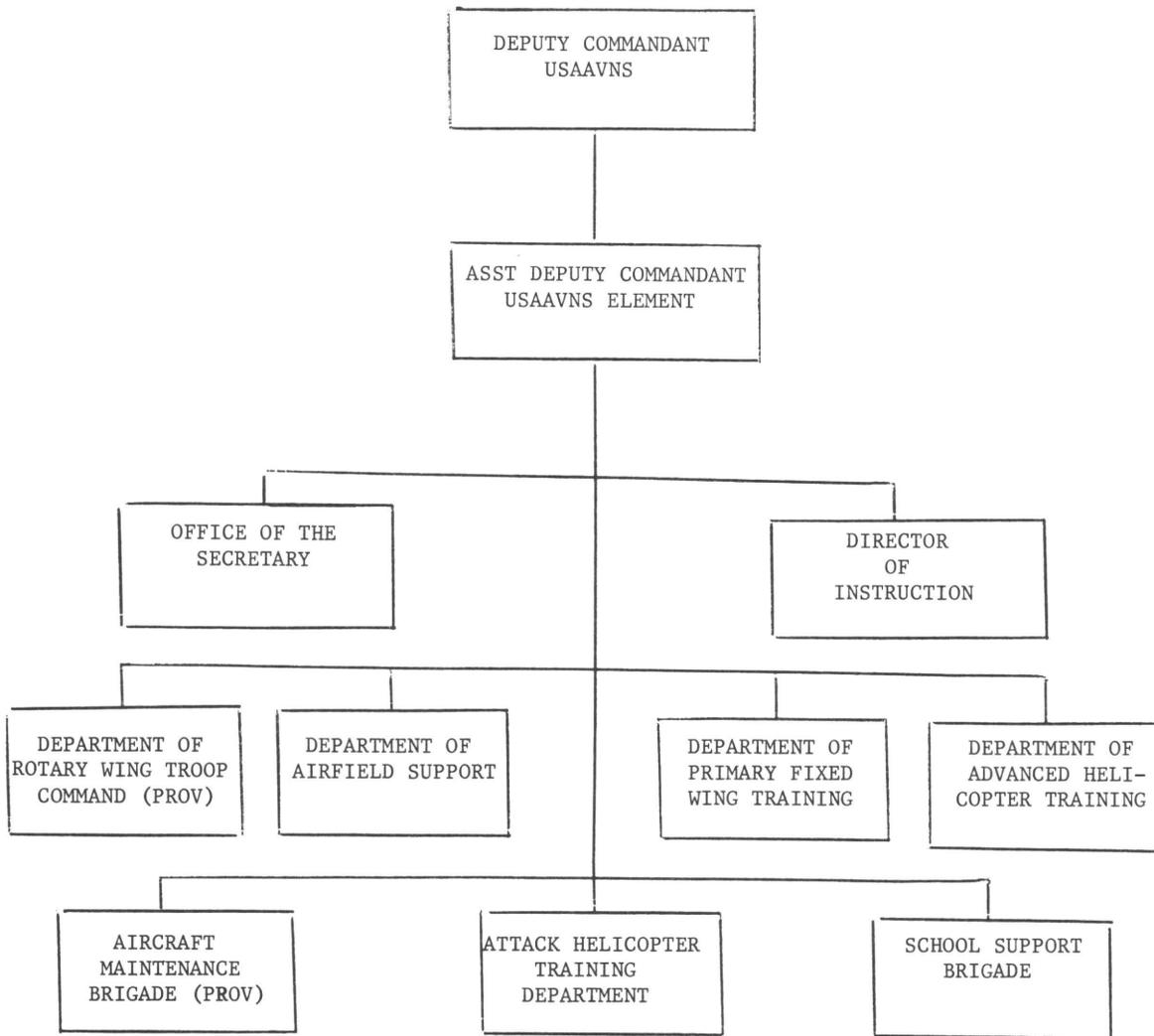


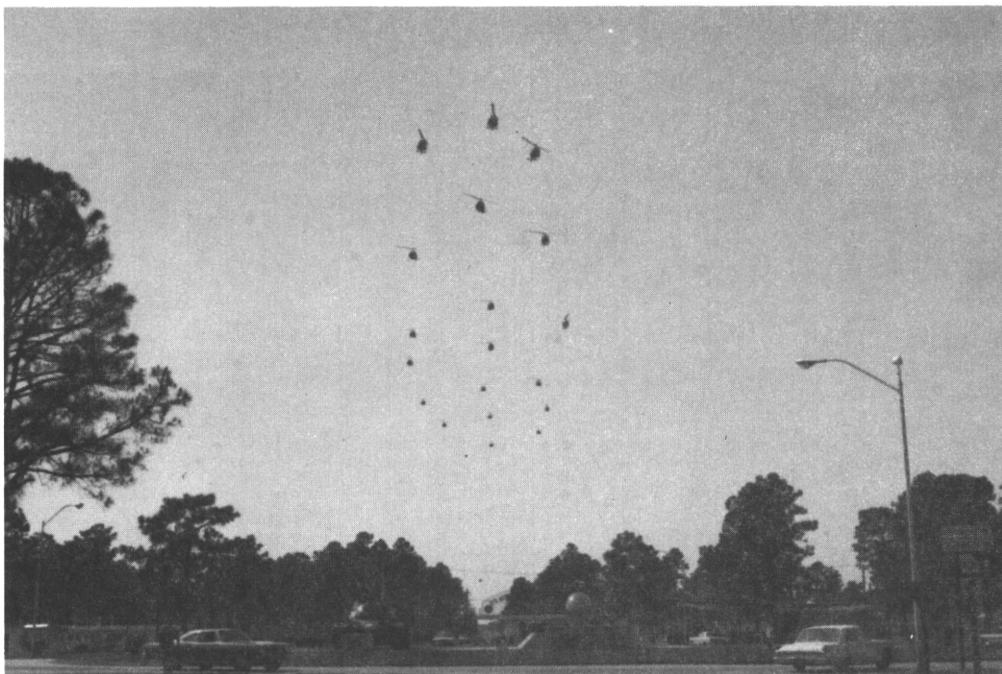
USAAVNS ELEMENT

Ft Stewart/Hunter AAF, Georgia



BRIGADIER GENERAL JAMES C SMITH, COMMANDING GENERAL
COMMANDING GENERAL, U.S. ARMY FLIGHT TRAINING CENTER AND
FORT STEWART, GEORGIA AND DEPUTY COMMANDANT, U.S.
ARMY AVIATION SCHOOL ELEMENT, HUNTER ARMY AIRFIELD, GEORGIA





USAAVNS ELEMENT
FORT STEWART/HUNTER ARMY
AIRFIELD, GEORGIA

USAAVN SCHOOL ELEMENT

FORT STEWART/HUNTER ARMY AIRFIELD, GEORGIA

MISSION

As directed and within the guidance furnished by Commanding General, United States Continental Army Command, and Commandant, United States Army Aviation School, the general mission of the United States Army Aviation School Element, Fort Stewart/Hunter Army Airfield, Georgia, is to conduct training and instruction in the various phases of Army aviation.

PERSONNEL

On 3 August 1970, Brigadier General James C. Smith assumed the duties of Deputy Commandant, United States Army Aviation School, Fort Rucker, Alabama and Commanding General, United States Army Flight Training Center and Fort Stewart, Fort Stewart, Georgia. General Smith succeeded Major General George S. Beatty, Jr. who was reassigned as Chairman, United States Delegation, Joint Brazil-United States Military Command. Brigadier General Frank Meszar served as interim commander from 6 July 1970 until his retirement on 31 July 1970.

Key personnel for USAAVNSE, Hunter/Fort Stewart as of 31 December 1970 were:

Assistant Deputy Commandant: Colonel James D. Kidder.

School Secretary: Colonel Norman W. Paulson.

Director of Instruction: Colonel Robert S. Kellar.

CO, School Support Brigade: Colonel Ted A. Crozier.

CO, Aircraft Maintenance Brigade: Colonel Albert A. Johnson, Jr.

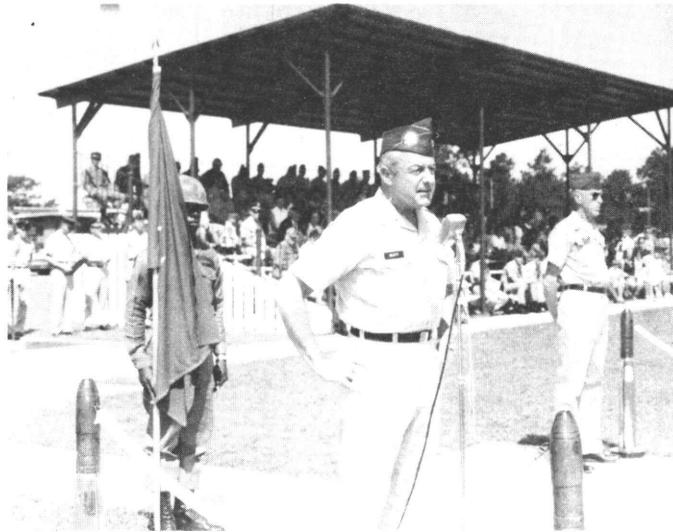
Dir, Dept of Primary Fixed Wing Training: Colonel Robert R. Dobson.

CO, Rotary Wing Troop Command (Prov): Colonel George W. Aldridge.

Dir, Dept of Airfield Support: Colonel Dale W. Taylor.

Dir, Dept of Advanced Helicopter Training: Colonel Jesmond D. Balmer.

Dir, Attack Helicopter Training Department: Lieutenant Colonel Ronald C. Perry.



Major General George S. Beatty addresses the command troops of the Flight Training Center during a Farewell Review held in his honor on 30 June 1970.



Brigadier General Frank Meszar (right) retiring Commanding General of the U.S. Flight Training Center and Fort Stewart, Georgia is presented the Distinguished Service Medal by Major General B.F. Evans, Jr., Deputy Commanding General Third U.S. Army at a retirement ceremony, 31 July 1970 at Hunter Army Airfield, Georgia.

SCHOOL SECRETARY

Key personnel as of 31 December 1970 were:

School Secretary: Colonel Norman W. Paulson.

Assistant School Secretary: Lieutenant Colonel Elliott William Polcene, Jr.

Chief, Administrative Division: Major Paul D. Smith, Jr.

Chief, Visitor/Protocol Division: Captain James B. McKenzie, Jr.

Chief, Registrar Division: Captain William H. Toffey.

Chief, Resource Management Division: Major Lewis F. Palumbo.

Chief, Aircraft Accident Investigation Board: Major Sonny Blackburn.

Administrative Division

The Technical Library Branch had a total collection of 27,342 items consisting of books, periodicals, military publications, FAA publications, pamphlets, documents, microfiche documents, maps, college catalogs and telephone directories. The library usage is reflected in a yearly attendance of 47,171, a circulation of 8,963 and a total usage of 20,020 items. There were 2,300 reference questions answered. There was increasing participation in library usage by Vietnamese students during the year. During the last two quarters our library received much usage from men taking on post courses from Embry-Riddle Aeronautical University, as well as those taking other college courses.

Visitor/Protocol Division

On 26-27 February, Ambassador Bui Diem, South Vietnamese Ambassador to the United States visited Hunter Army Airfield for an orientation tour.

USAAVNS Element was visited on 20 February by Brigadier Aban Naidu, Military and Naval Attache, Embassy of India.

On 3 June General James K. Woolnough, Commanding General, CONARC, made a 45-minute stop-over at Hunter Army Airfield for an informal discussion with the Commanding General, Major General George S. Beatty, Jr.

Lieutenant General Harold Loken, Commander and Chief, Norwegian Army visited USAAVNS Element on 26 June to observe UH-1B and AH-1G firing demonstrations.

The Ambassador to South Vietnam, Bui Diem visited USAAVNS Element to speak at the graduation of the first Vietnamese Rotary Wing Aviator Class 70-01 on 22 June 1970.

On 15-16 September Brigadier General Juergen Schroeder and 73 members of the 11th German General Staff Training Course visited Hunter Army Airfield to view a UH-1B and AH-1G firing demonstration.

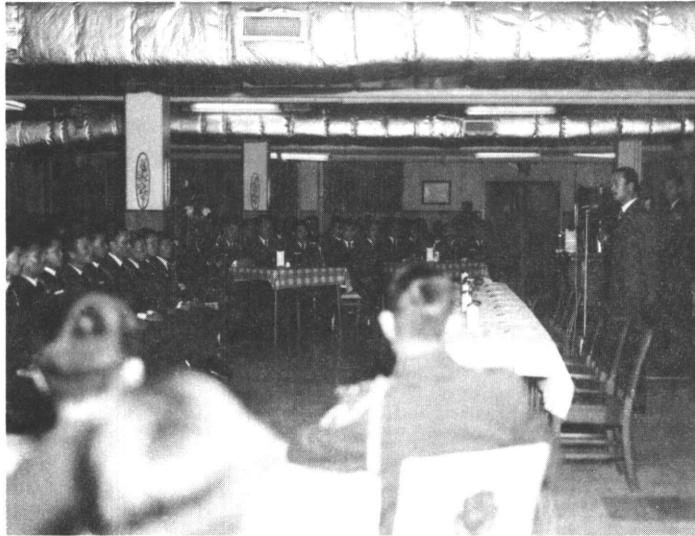
Richard M. Nixon, President of the United States, landed at Hunter Army Airfield on 8 October to begin a driving tour of Savannah, Georgia and to visit the Skidway Institute of Oceanography.



LTC Elliott W. Polcene, Jr. (right) answers questions for LTC Harald Loken, Commander and Chief, Norwegian Army (center) and MG George S. Beatty, Jr. on the control panel of a Huey Cobra.



(L to R) BG Smith, Vice President Ky, General Minh, LTC Overhamm.



Vice President Ky speaks to Vietnam Air Force flight students during his visit to the United States Army Flight Training Center, Hunter Army Airfield, Georgia on 20 November 1970.



The first Vietnam Air Force Students to arrive at the Flight Training Center for Advanced Helicopter Training line up prior to their official greeting by MG George S. Beatty, Jr. on 6 March 1970.

The Vice President of South Vietnam, Nguyen Cao Ky, visited Hunter Army Airfield for informal discussions with the Vietnamese students on 20 November.

Major events for the year were:

1 January	New Year's Day Reception.
20 March	Dedication of Tuttle Army Hospital.
25 March	Dedication of Eisenhower Drive, Savannah, Georgia by Mrs. Mamie Dowd Eisenhower.
17 May	Armed Forces Day Air Show.
4-7 June	AAAA National Executive Board Meeting.
30 June	Farewell Dinner & Reception for Major General George Beatty.
31 July	Retirement Ceremony and Reception for Brigadier General Frank Meszar.
3 August	Welcome Ceremony for Brigadier General James C. Smith.

Registrar Division

On 16 June 1970, the last ORWAC class graduated at the USAAVNS Element. As of that date, a total of 2,633 ORWAC students and 2,705 WORWAC students had completed the Rotary Wing Aviation Course at Hunter Army Airfield. On 23 June 1970, the first VORWAC (VNAF) class graduated at the USAAVNS Element. As of 31 December 1970, a total of 675 Vietnamese officers and air cadets had become rotary wing qualified. During calendar year 1970, the total number of students graduated from the fixed wing course at Fort Stewart was 1012.

RESOURCE MANAGEMENT DIVISION

Budget Branch

At the close of FY 71 the Budget Branch had utilized 100% of its allocated funds. At the close of the FY in June, \$15,442,356.89 was available for flight training and all but \$25.00 was utilized. Support of contract aircraft maintenance was allocated \$246,730.00 and all but \$8.64 was expended. Center (CRF) received \$571,352.86 and utilized all but \$2.02.

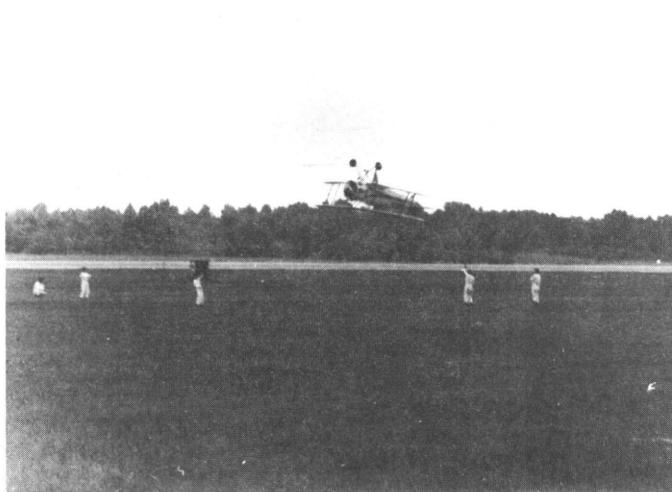
The annual budget has reduced from a 20.0 million dollar requirement in FY 69 to a 11.3 million dollar level in FY 71. This change has resulted from the elimination of the active Army Initial Entry Rotary Wing Program and the implementation of the VNAF training program. Since the VNAF program is accomplished on a reimbursable basis from the U.S. Air Force, the direct funds required has been reduced to only 4.6 million dollars for the current year.

Management Branch

The Management Branch was responsible for the Cost Reduction involving modification of the TH-13 helicopter engine. After submission the Army Audit Agency estimated a savings of \$74,100. A POI change was submitted and validated for a savings of \$360,000.00. A



BG James C. Smith (left, standing) addresses the troops and guests during a welcome ceremony in his honor at Hunter Army Airfield on 3 August 1970.



Stunt aviator, Beuo Howard, performs his famed demonstration in the German built Jungmeister during Armed Forces Day Open House at Hunter Army Airfield, Georgia on 17 May 1970.

cost reduction was submitted in the area of equipment maintenance management with an estimated savings of \$244,400.00 through FY 72. A cost reduction involving TBO engine changes was approved and validated by the Army Audit Agency with a savings of \$293,000.00. The RECON Program resulted in a cost reduction of \$209,000.00 in the equipment maintenance management field.

Flight Records Branch

A major change in the organization was effected with the addition of the Flight Records Branch to the Resource Management Division in April. Since its assignment to the Resource Management Division, Flight Records Branch has in-processed 3,289 and out-processed 3,074 personnel flight record during 1970. The average number of flight records maintained by the Flight Records Branch since its assignment in April was 2,628.

Personnel, Resource Management Division

The civilian personnel of the division have a cumulative total of 220 years of Civil Service Employment.

AIRCRAFT ACCIDENT INVESTIGATION BOARD

During the calendar year 1970, the Aircraft Accident Investigation Board completed 19 technical investigations. This is particularly significant as the accident rate has dropped, as indicated by having investigated 38 accidents in 1969. Two fatalities occurred in 1970 resulting from an aircraft accident as compared to six fatalities in 1969.

DEPARTMENT OF AIRFIELD SUPPORT

ORGANIZATION

During the reporting period of 1 Jan through 31 Mar the following activities occurred in the airspace area. The Southern Region of the FAA had several proposals concerning the establishment of transition areas at Wright AAF and the Savannah Control Zone to update each transition area in accordance with the new TERP's criteria. The US Army opposed these proposals in that it would seriously affect the conduct of training during conditions of special VFR. An informal meeting was held in Atlanta on 14 Jan 70 to discuss the objections. The result of this meeting and in coordination with the Station Manager at Travis Field, the Wright AAF proposal was cancelled completely and new instructions were given WAAF Operations on the conduct of IFR traffic to insure that all traffic would reach an altitude of 1200' MSL before departing the control zone. The Savannah Control Zone was reconfigured so that we could continue our training in SVFR conditions and IFR traffic from both Travis Field and Hunter AAF would still be able to arrive at 1200' prior to departing the control zone. These actions are in effect at this time.

The final airspace action was the establishment of a sole-user test flight area for the Maintenance Brigade, something that we tried to accomplish for over a year. Flight procedures, routes, etc., were established and coordinated with all interested agencies to include Savannah RAPCON.

Airspace actions were the primary events which occurred during the reporting period of 1 April through 30 June 1970. Of primary concern was further action on the Hopeton Plantation, the proposed construction of a 20 floor apartment building in the vicinity of Memorial Hospital and the low level jet routes which had penetrated the alert area.

A working conference was conducted at Jacksonville, Florida, to review the low level, high speed jet routes which penetrated the established alert area. As a result of this conference, routes ALMA 2 was realigned to exit outside the USAAVNSE training area, Brunswick 17 was rerouted south where it traverses the alert area but remains away from established fixed wing training areas, Florence 48 was rerouted to remain completely outside the alert, Gainesville 60 was rerouted to remain south of the Altamaha River, Hickory 73 and Macon 89 were eliminated.

During the period 6-15 Jul 70, a survey team, made up of personnel from USAASO and STRATOM, conducted a survey at Hunter AAF, Wright AAF, and Evans AHP. This survey was to provide input data along with other surveys conducted at selected sites in an effort to determine a standard package of electronics, to include navigational aids, radar, communications, consoles, and all other allied equipment. This electronic package would be issued to all selected Army operated airfields to assist in ease of maintenance, ease in requisitioning spare parts, training of maintenance and repair personnel, and the training of all operators of the equipment. Each Army airfield will be categorized and based on which category an airfield may be placed will determine which all inclusive package of electronic gear will be issued.

On 8 Oct 70, President Nixon arrived at Hunter AAF to attend the dedication of the Marine Biological Laboratories in Savannah. DAS was required to assist in providing a command post for the Air Force Special Missions group, a communications facility, a focal point for arrival and departure security, auxiliary equipment for the Presidential flight, and support for the many other requirements involved to support a Presidential visit.

On 6 Nov 70, Vice President Ky arrived at Hunter AAF to conduct an inspection of those facilities utilized in the training of the VNAF students. Support requirements similar to Mr. Nixon's visit were imposed and coordination was made with all agencies.

DEPARTMENT OF PRIMARY FIXED WING TRAINING

INTRODUCTION

Throughout 1970, the Department conducted and supervised normal student training. During the year, 988 students were graduated from the three courses taught by the Department, while flying 90,562 hours. The current organization provides authorized personnel as shown:

	<u>Officers</u>	<u>Warrant Officers</u>	<u>Enlisted</u>	<u>Civilians</u>
Authorized under present organization	103	33	38	45
Assigned on 31 Dec 70	82	40	25	39

KEY PERSONNEL

Department Director and Commander, Fixed Wing Troop Command (Prov): Colonel Robert R. Dobson.

Department Deputy Director: LTC Ralph O. Benefield, 1 Jan 70 - 12 Apr 70; LTC Kenneth M. Fritz, 13 Apr 70 - 7 Jul 70; LTC Charles H. Gillman, 8 Jul 70.

OPERATIONS

On 1 December 1970, the Department of the Army announced it would discontinue the Initial Entry Fixed Wing Training Program with the graduation of classed currently enrolled. Effective 31 December 1970, the civilian contractor Doss Aviation Incorporated, was released and upon graduation of O/WOFWAC Class 71-17/18 on 12 February 1971, the Initial Entry Program will terminate. The remaining mission of Department of Primary Fixed Wing Qualification Course and Vietnam Instructor Pilot's Course.

SAFETY

The Department aircraft accident rate for the CY 1970 was 7.70 per 100,000 flying hours. There were three minor and four major accidents during the year.

DEPARTMENT OF ADVANCED HELICOPTER TRAINING

CHANGE OF COMMAND

9 February 1970 Colonel George W. Aldridge, Jr., assumed command of the Department of Advanced Helicopter Training from Lieutenant Colonel William A. Roehl.

30 June 1970 Lieutenant Colonel Glenn M. Ebaugh assumed duties of Deputy Director of the Department of Advanced Helicopter Training from Lieutenant Colonel William A. Roehl.

15 October 1970 Colonel Jesmond D. Balmer, Jr. assumed the duties of Director of the Department of Advanced Helicopter Training from Colonel George W. Aldridge, Jr.

LEARNING CENTER

On 17 March 1970 DAHT began operations in a temporary Learning Center and on 8 May 1970 the permanent Learning Center was opened. The Center is designed to present remedial and supportive training for the AMT Students in all academic and flight subjects presented at Hunter. The Center incorporates into its Program of Instruction the most advanced techniques of programmed learning utilizing a sophisticated series of audio visual aids. The instructors at the Learning Center are cross-trained in both academics and flight MOI, thus enabling them to assist in both areas to provide maximum availability to the AMT students. The Learning Center will be operational during the students' off-duty time to include evenings and weekends.

PMOLA

A new device "Poor Man's Optical Landing Aid" was introduced in May 1970. The PMOLA is designed to assist initial-entry students to make normal approaches and has proved to be a valuable aid in VNAF training by reducing training time on this basic maneuver to a minimum.

REDUCTION IN VNAF STUDENTS

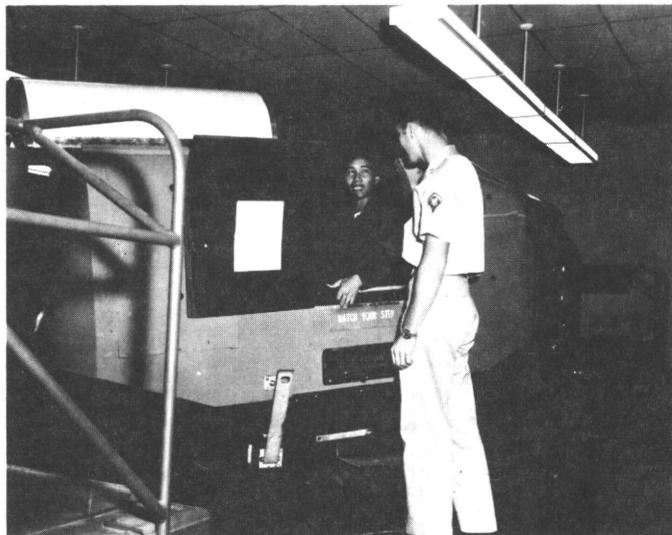
On 26 October 1970 the Vietnamese student input to DAHT was reduced from a forecasted 61 students per class to 23 students per class. The overall effect of the change in student input has reduced the student in-resident load from approximately 340 to 148 as of 31 December 1970. The reduced workload has allowed the closing of one Flight Training Division consisting of 111 personnel; this was effective 31 December 1970.

CLOSING OF TRAINING FACILITIES

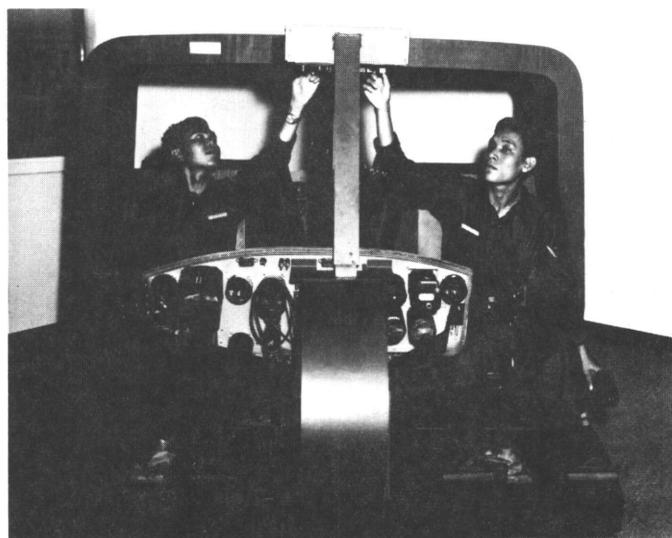
The reduction of personnel and student input has resulted in the closing of a Division, a Stagefield and a 50% reduction in Confined Areas. The closing of the stagefield and the confined areas have saved a considerable amount of money by eliminating the cost of operations. Student training time has also been saved since the stagefield and a majority of the confined areas that were closed are the farthest in flight time from Hunter Army Airfield.

HOT REFUELING

In November 1970, Hot Refueling was incorporated at Hunter for Rotary Wing aircraft.



A Vietnamese student receives instruction in the Synthetic Trainer.



VNAF students in Learning Center at Hunter Army Airfield, Georgia.

COASTAL EMPIRE FAIR

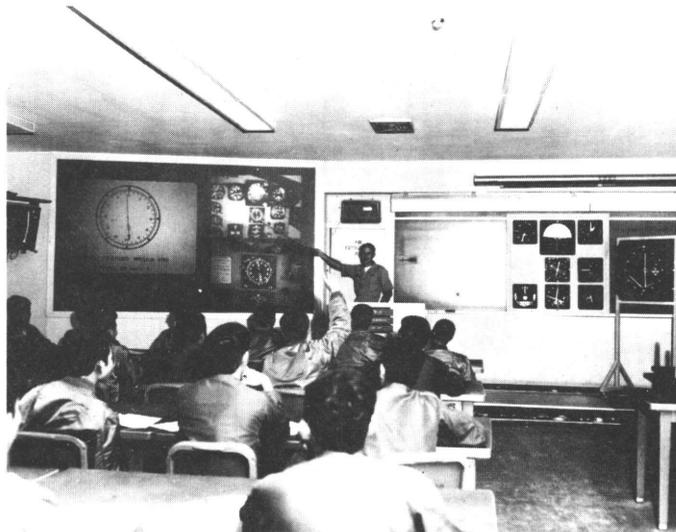
In October 1970, the Department of Advanced Helicopter Training was assigned the responsibility of providing a static display at the Coastal Empire Fair depicting the operations at the U.S. Army Flight Training Center. On 2 November 1970, the Fair officially opened. The display exhibited all phases of training, equipment used and many other subjects of public interest.

ACADEMIC INSTRUCTION

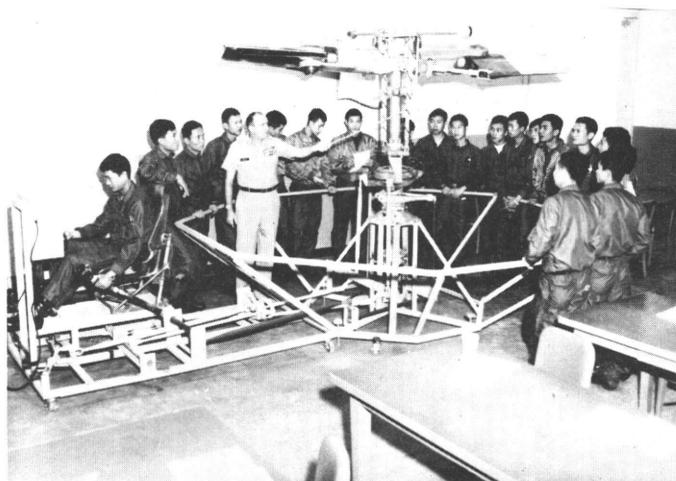
On 15 December 1970 the Department of Advanced Helicopter Training assumed the duties of the Department of Tactics Academic Branch except for armament. This resulted in an increase of 11 persons to the Academic and Synthetic Training Division.

MARKS OF ACHIEVEMENT

As of 31 December 1970, the Department had trained 922 VNAF students and currently had 167 in-resident students. Of the total of 1,087 students, 0.9% have been eliminated because of flight deficiencies, 0.4% for medical reasons and 0.1% for administrative reasons which totals as an overall elimination rate of 1.4%. The success of the Department can be attributed to the highly developed skills of its Instructor Pilots and to the outstanding degree to which the VNAF students are motivated.



CW2 Roger A. Kimmeh, Flight Academic Instructor
in typical multi-media classroom.



Vietnamese students observe the operations of
flight controls and rotor system.

AIRCRAFT MAINTENANCE BRIGADE

MISSION

The Aircraft Maintenance Brigade is responsible for organizational, direct, general and limited depot maintenance on all rotary wing aircraft and center fleet fixed wing aircraft; armament, avionics, equipment to include supply and recovery support of aircraft assigned to the USAAVNS Element.

The Aircraft Maintenance Brigade has consistently sought out the final adjustments necessary to support the Allied Military Training. The Aviation School Element graduated the last class of Warrant Officer Candidates in March 1970, and began the first of a fourteen week class of nearly sixty Vietnamese Air Force students on 16 March 1970. The Aviation School aircraft requirement shifted from the combination of TH-13, UH-18, UH-1D and AH-1G aircraft to a primary requirement for UH-1D and AH-1G aircraft. The Aircraft Maintenance Brigade responded by transferring 22 of the TH-13's and 17 of the UH-1B's to Fort Rucker, Alabama.

The first class of the Vietnamese Air Force, Class of 70-1, students to graduate from the USAAVNS Element on 29 June 1970 consisted of 50 students.

ORGANIZATION

The Aircraft Maintenance Brigade consists of the following units:

- Headquarters & Headquarters Company
- 1st Aircraft Maintenance Battalion
- 2nd Aircraft Maintenance Battalion
- 3rd Aircraft Maintenance Battalion
- 4th Aircraft Maintenance Battalion

The Aircraft Maintenance Brigade is the largest unit in the USAAVNS Element at the Flight Training Center. The Aircraft Maintenance Brigade utilized the skill of experienced enlisted personnel to maintain more than 170 helicopters. The Aircraft Maintenance Brigade has the unique distinction of being the only Aircraft Maintenance Brigade in the Army which Army mechanics work on Army aircraft.

The initial TD for the USAAVNS Element was developed at Fort Rucker during March 1967. In February 1968, the physical operation of the Department of Aircraft Maintenance and Supply of the Aircraft Maintenance Battalion of the School Brigade was merged into the Aircraft Maintenance Brigade.

At a change of Command ceremony on 18 August 1970, with BG James C. Smith, Commanding General of USAFTC&FS, officiating, Lieutenant Colonel Albert A. Johnson, Jr., replaced Colonel Keith J. Bauer at the Commanding Officer of the Aircraft Maintenance Brigade. Subsequent to the Change of Command ceremony, Lieutenant Colonel Howard J. Tuggey assumed the duty as the Deputy Commanding Officer of the Aircraft Maintenance Brigade to replace Lieutenant Colonel Johnson.

The Quality Assurance Office, formerly under the S-4 Section, was designated a separate entity. Configuration control responsibility was assumed by the Quality Assurance Office and command emphasis was exercised on the installation of all on-hand Modification Work Order Kits.

The 5th Aircraft Maintenance Battalion was reorganized and redesignated as the 2nd Aircraft Maintenance Battalion on 15 May 1970, with two organizational companies and one direct support company.

PERSONNEL

As of 31 December 1970:

	<u>OFF</u>	<u>WO</u>	<u>EM</u>	<u>DAC</u>
AUTHORIZED	77	82	2206	38
ASSIGNED	110	141	2588	33

1 February 1970, Lieutenant Colonel Howard J. Tuggey succeeded Lieutenant Colonel Robert D. Neely as Commanding Officer of the 5th Aircraft Maintenance Battalion.

2 February 1970, Lieutenant Colonel Douglas L. Hutchens assumed command of the 3rd Aircraft Maintenance Battalion from Lieutenant Colonel Walter J. Connell.

August 1970, Lieutenant Colonel Thomas H. Trively assumed the command of the 2nd Aircraft Maintenance Battalion from Lieutenant Colonel Howard J. Tuggey.

For the first time at Evans Army Heliport, C Company, 5th Aircraft Maintenance Battalion achieved 100% availability of flying aircraft. 100% is a superior achievement in aircraft maintenance and reflects outstanding cooperation and morale of the unit. Lieutenant Colonel Howard J. Tuggey, Commanding Officer of the 5th Aircraft Maintenance Battalion, congratulated Major Leonard P. Wice, Commanding Officer of C Company for the unit's remarkable achievement.

SCHOOL SUPPORT BRIGADE

MISSION

The mission of the School Support Brigade is to prepare and enforce plans and policies relative to command and administration of students, cadre personnel at Hunter Army Airfield, plus all Garrison units at Hunter Army Airfield.

PERSONNEL STATUS AS OF 31 DECEMBER 1970

	<u>OFF</u>	<u>WO</u>	<u>EM</u>	<u>CIV</u>
Authorized	42	11	759	28
Assigned	61	23	1318	24

KEY PERSONNEL CHANGES

<u>Name</u>	<u>From</u>	<u>To</u>
LTC Fladmark, Lorentz W.	DCO, Sch Bde	Retired
LTC Sims, Billy G.	CO, Stu Bn	WOAB, DA
LTC Shedden, Eckols L.	DOI	CO, Stu Bn
LTC Kirchner, Alfred H.	DAHT	Bde, S-3
LTC Pedrick, Eugene S.	DPCA(H)	Bde, S-1
MAJ Clary, Jim H.	DAS	CO, Alfd Co A
LTC Shedden, Eckols L.	CO, Stu Bn	Deceased
MAJ Hill, David E.	CO, Off Stu Co	RVN
MAJ Russell, David E.	Flight School	Liaison Officer
COL Crazier, Ted A.	Sch Secy	CO, Sch Spt Bde
COL Paulson, Norman W.	CO, Sch Spt Bde	Sch Secy

ACCOMPLISHMENTS

On 11 February 1970 Warrant Officer Candidate Company A was redesignated Allied Military Training Company A. During its existence, WOC Co A trained over 740 Warrant Officer Candidates.

On 5 March 1970, the Student Battalion received their first class of Vietnamese student officers. Twenty-eight student officers arrived and began training 16 March 1970. On 10 March 1970, WOC Co C graduated their last candidate class and was deactivated on 18 March 1970. During its existence, WOC Co C trained over 780 Warrant officer Candidates.

Prior to the arrival of the Vietnamese students, the Battalion S-3 initiated a Sponsorship Program to provide each individual Vietnamese student with a sponsor, either military or civilian, providing them with a deeper insight of American way of life. In conjunction with the sponsorship Program, the Brigade has also initiated an Informational Program. The purpose of this program is to provide local and Atlanta tours to the Vietnamese students to acquaint them with the American system and processes of Government and American business systems. To provide background information for the Informational Program, classes are conducted for the Vietnamese students on the American economy and systems of Government.

The initiation of a "Learning Center" was implemented for VNAF students who were experiencing difficulty in flight or academics. The Learning Center is equipped with slides, movies, tapes and a variety of other training aids to render assistance to the student in an effort to overcome any particular problem he is experiencing.

On 22 June 1970, VORWAC Class 70-1, the first class of Vietnamese officers to attend Advanced Helicopter Training at Hunter Army Airfield, graduated 56 individuals.

ROTARY WING TROOP COMMAND (PROVISIONAL)

ACCOMPLISHMENTS

On 20 February 1970, Brigadier General Avon Naido, Military and Naval Attache, Embassy of India and Colonel Cavell, Director of Instruction, were given a briefing and tour of the Department of Tactics and TAC-X.

On 11 May 1970, Department of Tactics received their first class of Vietnamese (AMT) students. Numerous Department of Tactics changes and revisions were put into effect before this time in order to provide the best possible tactical flight training.

On 27 June 1970, Lieutenant General Harold Laken, Commander-in-Chief, Norwegian Army visited the Aviation Armament Division. He received a briefing and tour by Lieutenant Colonel Polcene, Chief, Aviation Armament Division, and observed a fire power demonstration on AGR No. 4.

On 21 July 1970, Lieutenant Colonel John H. Schnibben, Jr., was assigned as Director, Department of Tactics.

On 16 September 1970, Brigadier General Jurgen Schraeder, German Army, and 73 members of the 11th German General Staff Training Course visited the Aviation Armament Division and received a briefing and tour.

On 15 October 1970, Colonel George W. Aldridge, Jr. was assigned as Director, Department of Tactics.

On 19 October 1970, as a result of the reorganization plan, the Department of Tactics was redesignated as the Rotary Wing Troop Command (Provisional). This reorganization plan also resulted in:

- a. Release of the Aviation Armament Division, Hunter Army Airfield, Georgia.
- b. Release of the Hunter Academics Branch, Academics Division, Hunter Army Airfield, Georgia.
- c. Attachment of the 267th Aviation Battalion.

The Tactical Training Division graduated 66 MOI qualified instructor pilots, 675 VNAF students, 643 ORWAC students and 276 WORWAC students during 1970. Flight hours flown numbered 42,243 with a 4.7 percent accident rate.

267th Aviation Battalion

- 25 Jul 70 The 267th Aviation Battalion held its third annual organization day on 25 Jul 1970.
- 04 Aug 70 MAJ Jimmie Wilkie assumed command of Aviation Support Company A from MAJ Teddy C. Allen.
- 03 Oct 70 G Battery, 75th Artillery, continued its mission of supporting the School Brigade by firing live artillery demonstrations for 40 Vietnamese students.
- 13 Nov 70 MAJ Rex E. Saindon was assigned to the Battalion to assume duty as Battalion Executive Officer replacing LTC John F. Santulli who was reassigned as the Executive Officer of RWTC.

- 15 Nov 70 Department of Tactics was reorganized Rotary Wing Troop Command (Provisional) (RWTC) and the 267th Aviation Battalion designated one of its subordinate units.
- 20 Nov 70 Vice President Ky of South Vietnam arrived at Hunter Army Airfield complex in Savannah, Georgia, for an inspection of the progress of the Vietnamization process. G Battery, 75th Artillery, was called upon to fire a 19 gun salute.
- 01 Dec 70 LTC Thomas J. Warr was assigned as the Battalion Commander. He replaced LTC William Perrin who was reassigned as the RWTC Deputy Commander. COL Kidder was present at the ceremony and presented the Battalion guidon to LTC Warr.
- 16-17 Dec 1970 A two-day rifle range qualification was scheduled for the entire Battalion. E Company was placed in charge of the actual firing operation.

Throughout calendary year 1970, E Company, 54th Infantry continued to accomplish the support mission for Fort Stewart aviation students. This accomplishment entailed realistic projection of the type of action an aviator could encounter when flying recon missions or during LZ or PZ operations.



The computer at the Fire Direction Control Center explains how the FDC works.



G Battery, 75th Artillery participating in Veteran's Day Parade.

DIRECTOR OF INSTRUCTION

CURRICULUM DIVISION

Training Branch

Officer/Warrant Officer Rotary Wing Aviator Course: The final class at the USAAVNS Element graduated on 16 June 1970.

SYSTEMS ENGINEERING

Systems engineering of fixed and rotary wing programs continued at Fort Rucker. The Cobra portion of the rotary wing program is being completed at Rucker. The Department of Primary Fixed Wing Training is presently reviewing a proposed systems engineered package prepared for the Fixed Wing Qualification Course.

Programmed Instruction: The Programmed Instruction Workshop continued at Fort Rucker. The USAAVNS Element sent three individuals to the workshop in 1970.

US Air Force UH-1H Familiarization: Five US Air Force officers received ten hours of UH-1H familiarization at USAAVNS Element.

Ethiopian Fixed Wing Aviator Course: A modified Initial Entry POI was developed to qualify six Ethiopian officers in fixed wing (T-41) aircraft.

Fixed Wing Checkrides for Rotary Wing Aviators Trained at Civilian Flying Schools: USAAVNS Element now conducts a formal fixed wing qualification and checkride program under the direction of DFFWT in accordance with DA Message 152032Z May 70.

Plans Branch

During the period 1 Jan 70 to 31 Dec 70, this Branch conducted, reviewed and updated studies and projects relevant to all phases of aviation training at the USAAVNS Element. Plans Branch participated in reorganization for the VNAF program and the update and review of present and anticipated programs related to the Element. Annual, semi-annual, quarterly and monthly reviews, as applicable, of contingency and operations were conducted on a timely basis throughout 1970. A summary of events which were prominent in calendar year 1970 are as follows:

In January 1970, DA message 172008 Dec 69 requested information in reference to the possibility of shortening the VNAF Pilot Training Course, scheduled to begin in February 1970. An investigation and study showed that, although the schedule for the initial VNAF class could not be altered, processing and travel time for subsequent VNAF class could not be altered, processing and travel time for subsequent VNAF classes could be compressed, and that the class schedule could be accelerated by one week. The acceleration was approved by the Deputy Commandant. This completed planning for the initial acceptance of Vietnamese students under the Allied Military Training Program.

During the month of February various studies were initiated relevant to training facilities support including:

- (1) ASP's at both Hunter and Stewart.
- (2) Economy measures associated with AH-1G training.
- (3) AH-1G gunnery ranges.

(4) Test evaluation of systems such as the XM-18 linkless feeder. These studies required extensive investigation and were continued throughout the period of Feb 70 to Apr 70, with updates and reviews occurring later in the year.

Extensive research was done into the possible expansion of the USAAVNS Element mission. Studies were conducted on the capability of USAAVNSE to accept the following courses:

- (1) Rotary Wing Qualification Course.
- (2) Helicopter Instrument Flying Examiner Course.
- (3) Helicopter Instrument Flying Course.
- (4) CH-47 Transition Course.
- (5) Reinstitution of the Officer Initial Entry Rotary Wing Aviator Course.
- (6) Primary Initial Entry - Fixed Wing.
- (7) Primary Initial Entry - Rotary Wing.

All these studies were undertaken concurrently and the results were forwarded to Fort Rucker at the end of the month.

In May the USAFTC Regulation 10-2 (Organization and Functions) was reviewed and revised. A product improvement analysis for standardization of the 7.62mm flexible drive shaft (XM-28) was completed and the 04 TDA was submitted to G3 for acceptance.

An Interservice Agreement Conference, subject: Survival Recovery and Reconstruction, was held at Fort Stewart on 19 May 70. As a result, the Interservice Agreement was signed.

The plans for the Helicopter Instrument Flying and the Helicopter Instrument Flying Examiners Courses were reviewed and updated by 10 Jun 70. The studies on transferral of AAD to DAHT, relocation of ASP's and analysis testing of the 2.75 inch fleschette rocket with tracer warhead were completed on 17 Jun 70.

A conference was held at Fort Stewart for final preparation for the CIMS reorganization scheduled for 1 Jul 70. Final plans for the accomplishment of the plan were completed on 29 Jun 70.

The major part of July was taken up with activities relevant to initiation of Rotary Wing Initial Entry. A conference on resource requirements for the plan was held on 7 Jul 70. Required and associated assumptions, such as a reduction in the AMT program load, were assimilated into the final recommendations, which were completed on 30 Jul 70.

August and September were filled with AH-1G (Cobra) related studies and HUREVAC planning. Cobra related investigations included:

- (1) A cost analysis showing potential savings if on post quarters were provided to students attending AH-1G courses, instead of per diem allowances.
- (2) A study concerning training requirement for rocket control and display systems for the AH-1G.

(3) A cost analysis on the movement of Cobra training from Hunter AAF to Evans AHP.

(4) A study and cost analysis on the movement of Cobra and VNAF training to USAAVNC at Fort Rucker.

HUREVAC planning included:

(1) Revision and review of OPLAN HUREVAC.

(2) A cost analysis for evacuation of flyable aircraft under the HUREVAC OPLAN.

Numerous studies were completed by Plans Branch concerning "Installation Activities - Consolidation, Realignment, Reduction & Closure" packages and were forwarded to Fort Rucker.

Programs Branch

A summary of FY 70 and 71 student inputs by flight training courses are as follows:

<u>Course</u>	<u>FY 70</u>	<u>FY 71</u>
O/WO R/W	1,380	0
VNAF	462	879
AH-1G QC	1,052	961
AH-1G IP	60	68
O-1 IP	28	44
OFWAC/WOFWAC	702	278
FWQC	300	400
TOTAL	3,984	2,630

On 16 Jun the USAAVNS Element initiated the phaseout of the Officer/Warrant Officer Rotary Wing Aviator Course effective with class 70-16. The Allied Military Training Program (AMT) for members of the Vietnamese National Air Force commenced on 16 Mar 70. The Interservice Support Agreement Z3-A33040-1003-9 between US Naval Air Systems Command Headquarters and the United States Army Flight Training Center provided for the training of 66 USMC aviators in the AH-1G Aviator Qualification Course. Five AH-1G Cobra aircraft were provided for this training, however, one was lost due to crash damage early in the program. This agreement will terminate 30 Jan 71 and Marine aircraft will be returned to the control of the USMC.

USAAVNS Element began phasing out the Officer/Warrant Officer Fixed Wing Aviator Course with Class 71-17/18 which began training on 22 Oct 70 and will graduate on 15 Feb 71.

Due to decreased student loads, the following aircraft were released from student training and transferred from USAAVNSE.

- a. T-41 - 3 to Fort Eustis
- b. UH-1 - 58 to Fort Rucker

c. TH-13T - 135 to Fort Rucker

OPERATIONS DIVISION

Scheduling Branch

Final coordination and preparation for the implementation of Allied Military Training at Hunter was completed. The first VNAF class commenced training on 16 Mar 70 and ran concurrently with O/WORWAC training until it phased out. The complete changover from O/WORWAC training to Allied Military Training was accomplished with no major difficulties.

The annual revision of USSAVNS Element's administrative vehicle justification was requested, compiled and forwarded to G-4. This list reflected the greatest number of administrative vehicle requirements expected under the AMT program for the -04 revision of the USAG TDA. A post shuttle bus system was drafted and adopted for HAAF for the purpose of providing off-duty transportation for the VNAF students to enable them to utilize post facilities. Two attempts were made at operating such a system but neither attempt received sufficient utilization to justify their continuance.

During the second and third quarters of 1970 the Crash Rescue Division, DFAE, experienced difficulty in facility support resulting from personnel shortages. A fact sheet was prepared and forwarded to the DFAE recommending that HAAF Crash Rescue Division's TDA be increased to 51 personnel and coordination was effected with the HAAF TMP to provide additional vehicles on temporary loan so that USAAVNS Element support requests could be met with no adverse affects on student training.

A physical conditioning program was implemented for all VNAF students attending flight training at HAAF on the basis that physical conditioning be given every other week following scheduled academics. This program consisted of periods of physical training and organized athletics as well as instructional and recreational swimming. The instructional swimming program was conducted twice a week at Armstrong State College and was staffed by water safety instructors from HAAF with the assistance of instructors from the local Red Cross.

Coordination was effected for the administration of an English Comprehension Test to all VNAF students at HAAF. This test was administered by representatives from Lackland Air Force Base and was designed to determine how effective the English course presented at Lackland had been, as well as to determine ways to improve the content and texture of the basic course. In conjunction with this, a new course of instruction has been inserted into the VNAF POI on "cockpit terminology". This course is designed as a refresher course from that given at Lackland and is taught to each new class three nights a week for the first four weeks at HAAF.

A staff study was prepared and forwarded to the ADC recommending the reduction of POL assets at the Fixed Wing Stagefields with no resulting adverse effects on student training. Study was prompted by POL Division's support difficulty caused by personnel shortage.

ETV Branch

The closed circuit ETV system became fully operational at Fort Stewart in January 1970.

In April 1970, the Hunter station acquired the mission of supporting the Vietnamese Learning Center with television services. Station hours of operation increased from forty to ninety-five hours per week and a seven day schedule. To fully support this requirement, one VTR 1100 was transferred from Fort Stewart to Hunter AAF. No personnel augmentation was authorized to support the additional requirements.

On 1 July 1970, responsibility for maintaining the distribution system passed to the Director of Communications and Electronics. The responsibility for the repair of television receivers shifted to the Director of Industrial Operations. These changes were CONARC directed. During 1970, Fort Rucker taped and produced approximately forty video tapes for the USAAVNSE.

In 1970, ETV Branch broadcast 18,688 ETV programs for approximately 5555 hours of broadcast time.

In June, ETV compiled, published and distributed a sixty-six page video tape catalogue for USAAVNSE.

Facilities Support Branch

The following construction projects were completed during the First Quarter of CY 70.

a. Nose dock modification, Buildings 8658 and 8659, completed approximately 20 Feb 1970.

b. On-site preparation for engine simulator.

Construction projects completed during the Second Quarter of CY 70 were:

a. AMT Learning Center, Building 1276.

b. Renovation of Building 1229.

Construction projects completed during the Third Quarter of CY 70 were:

a. Stagefields 2 and 3 repairs and sodding.

b. Reroofing of Building 813.

c. Rehabilitation of weather facility, Building 1252.

Construction projects completed during the Fourth Quarter of CY 70 were:

a. Repair of aircraft parking pads, Area A.

b. Multimedia classrooms, Building 8627.

c. Installation of central air conditioning, Building 1216.

d. Repair and resurfacing of Canoochee Airstrip and Camp Oliver Taxiway.

Current TDA authorizations and strengths are:

<u>Position</u>	<u>Authorized</u>	<u>Operational</u>
Chief, Facs Spt Br (MAJ)	1	1 (MAJ)
Opns Off (CPT)	1	1 (CPT)
Asst Facs Off (CPT)	2	2 (1 CPT; 1 CW2)
Utilities Foreman (E-6)	2	1 (E-6)
Clerk-Steno	1	1 (GS-4)

Aircraft Maintenance Branch

School fleet changes have been as follows:

<u>TYPE A/C</u>	<u>GAINS</u>	<u>LOSSES</u>	<u>NET CHANGE</u>	<u>ASGD 1 JAN 70</u>	<u>ASGD 31 DEC 70</u>
UH-1	0	-60	-60	250	190
TH-13	0	-94	-94	94	0
AH-1	+4	- 4	0	47	47
O-1	+5	- 2	+ 3	25	28
T-41	+1	- 3	- 2	72	70

The Sub-EOC for OPLAN HUREVAC was activated for Hurricane Becky 21-22 Jul 70, and for the Presidential visit 8 Oct 70.

EVALUATION DIVISION

DOI has operated without the Flight Training Analysis Branch since 14 July 1969. The absence of this branch has had no major impact on any phase of flight training; however, it should be recognized that DOI is unable to maintain quality control over flight instruction without this branch.

The Academic Instructor Training Branch conducted eleven, three-week Methods of Instruction Courses and graduated one hundred and forty-six academic unstructors to the academic sections within the Flight Training Center during the reporting period. A presentation of Methods of Instruction was presented to several faculty members of the Savannah Vocational School. After this presentation, the faculty had thirty-five Savannah Vocational instructors attend a special two-week Methods of Instruction Course which was presented at night after duty hours. Seven Center School Briefings and four Community Service Briefings were given during the reporting period. One hundred fifty-four academic evaluations were conducted by the evaluators in the branch. The Outstanding Instructor Award Board, headed by a branch member, selected forty flight instructors and twelve academic instructors for the year. The Academic Training Analysis Branch conducted one hundred forty-two end of course critiques. Eighty-one incoming classes were briefed on examinations and grading. Ninety-seven academic examinations were processed and published.

DATA SYSTEMS DIVISION

The Army Aviation Training Management Information System (AATMIS) DAT was placed in final format and its content agreed upon by the ADP Coordination Committee after meetings at Fort Rucker and Fort Wolters. General Beatty, Deputy Commandant, USAAVNS, received a detailed briefing on the DAR on 25 March and concurred with the concepts outlined in the DAR and so indicated by a letter to General Oden. General MacKinne, Commandant USAPHS, received the same briefing at Fort Wolters on 1 April at which time he too concurred with the DAR.

During the second quarter, the AATMIS briefing was presented to Mr. Saintsing, Deputy Assistant Secretary of the Army (Financial Management), Mr. Davis, Mr. McLaughlin, LTC Sarnowski and LTC Martin. The AATMIS briefing was also presented to the USAFTC staff, LTC Vines, HQ CONARC, and to COL Robinson, DMIS Hunter-Fort Stewart. The final draft on the AATMIS submission was reviewed and an AATMIS liaison visit to TUSA and CONARC was completed by Mr. Apple, ADP committee member from Fort Rucker, with favorable results.

The Data Automation Requirement (DAR) for the Army Aviation Training Management Information System (AATMIS) arrived at Third Army Headquarters in July 1970. A briefing on AATMIS was held at Third Army during late July 1970. The AATMIS DAR was forwarded to CONARC in late August. Two information briefings were conducted at CONARC on 29 September 1970, which were attended by MG Shellman, CONARC Chief of Staff, and the action officers from each of the respective CONARC staffs.

The USAFTC staff was briefed on the proposed MISO organization and the Directorate of Management Information Systems (Provisional) was established on 11 May 1970 with COL Robinson as the DMIS. COL Robinson was briefed on the present ADP activities within USAAVNS Element. MAJ McKay accompanied COL Robinson, DMIS, on an orientation visit to Fort Rucker. The Data Systems Management Division, DOI was reorganized to coincide with the DMIS organization.

On 9 February, a test of an automated DA 2408-12 began with the Cobra fleet. During the second quarter, the Aviation Armament Division, DOT, initiated the Automated Flight Grading System for AH-1G Cobra students. A systems specialist and a keypunch machine were provided to the Aviation Armament Division of DOT for implementation of the Automated Flight Grading System.

The Department of Advanced Helicopter Training began an Automated Flight Grading System on 16 March with the initiation of AMT at Hunter.

In July 1970, an IP Quality Control Program was added to the Automated Flight Grading System and implemented in DAHT and Aircraft Armament Division, DOT.

In Nov 70, the establishment of the entire School Element on the Automated Flight Grading System was completed by the installation of the automated system into the RWTC, Fort Stewart.

Control Data Corporation conducted a Management Seminar on Computers at Hunter Army Airfield 18-20 February. There were 35 people who attended which included 4 Department Directors/Brigade Commanders, in addition to operations and administrative personnel.

The initial portion of the VNAF, AMT study started in October, was completed prior to the Christmas holidays and initial work begun in establishing VNAF Flight Terminology classes at Hunter Army Airfield.

The 1352 ADP Program was expanded to include Aircraft Daily Time. Preparation for test utilizing Source Data Automation Equipment to begin in late January 1971 was continued.

ATTACK HELICOPTER TRAINING DEPARTMENT

MAJOR ACCOMPLISHMENTS

During CY 70 the Department of Attack Helicopter Training qualified over 1100 officers in the AH-1G Heucobra and successfully graduated an additional 65 CONARC instructor pilots. The large majority of these aviators went directly to gaining units in the Republic of Vietnam.

This Department expanded its training program by incorporating the XM-35 weapons system into its program of instruction. The XM-35 armament subsystem (20mm gattling type gun) was introduced into the Heucobra's arsenal in order to provide a weapon with a stand-off capability, especially against anti-aircraft weapons. Because of the successful wide-spread deployment of this system in the field, the necessity arose to instruct attack helicopter pilots in its functions and usage. Over a several-month period, lesson plans were researched, reviewed and implemented to develop a four-hour block of instruction on the XM-35 system. Concurrently, training aids were developed to afford the student the training in disassembly, assembly and trouble-shooting. Coordination with Picatinny Arsenal, Frankford Arsenal and General Electric was necessary to insure accuracy and reality in the new instructional block.

On 15 November 1970 the Aviation Armament Division was redesignated the Attack Helicopter Training Department and assumed complete responsibility for AH-1G transition and instructor pilot training. LTC Elliott W. Polcene, Jr. was the first director of the new department and, following his reassignment, he was succeeded by LTC Ronald C. Perry. Upon redesignation, the Attack Helicopter Training Department completed internal reorganization paralleling operations of the old division and incorporating a new administrative section.

During the year, this Department was responsible for conducting briefings and tours for a large number of CIP's and distinguished visitors, to include:

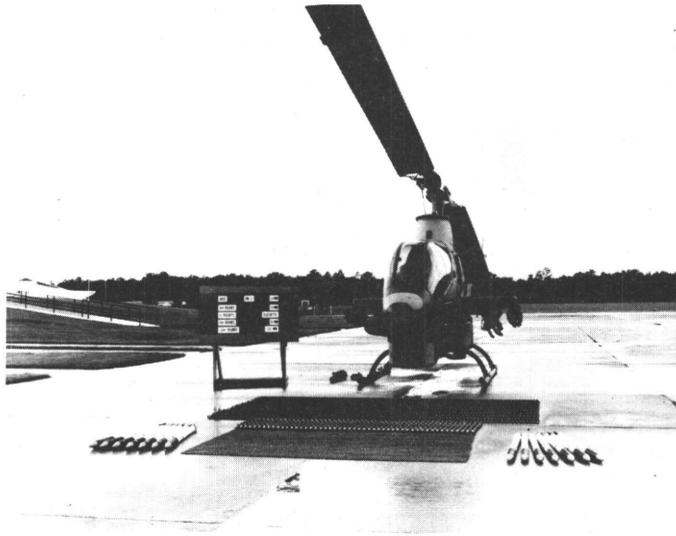
- (1) Mr. Stanley R. Resor, Secretary of the Army.
- (2) LTG Harold Luken, Commander in Chief of the Norwegian Army.
- (3) MG Allan M. Burdett, Commander USAAVNS.
- (4) MG Robert R. Williams, Deputy Assistant Chief of Staff for Force Development.
- (5) MG Oscar R. Peatross, US Marine Corps.
- (6) BG Jonathan R. Burton, Jr, Officer of the Joint Chiefs of Staff.
- (7) BG Juesgen Schrieder and 73 members of the 11th German General Staff Course.
- (8) Additionally, the Department was responsible for three major fire power demonstrations as well as support for demonstrations at Fort Rucker, Fort Benning, and Fort Jackson.

The Attack Helicopter Training Department supported several projects throughout CONARC in connection with armed helicopter development and experimentation, to include:

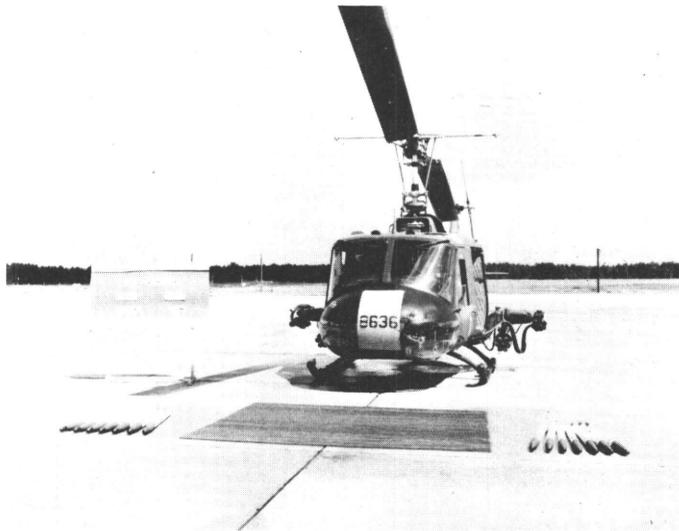
- (1) 2.75" FFAR accuracy firing at Yuma Proving Grounds.
- (2) Editing of training films at Fort Rucker.

(3) Assistance to Rotary Wing Curriculum Development Group, System Engineering, Fort Rucker.

(4) Support for the US Army Armor School, Fort Knox, Kentucky.



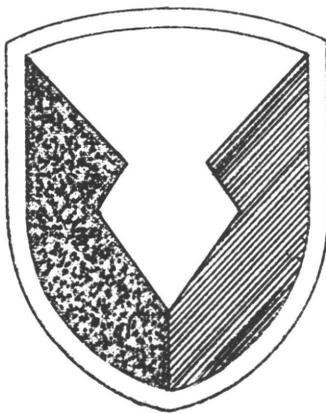
Helicopter armament display.





CHAPTER 5

**CLASS II
ACTIVITIES**



UNITED STATES ARMY AVIATION HUMAN RESEARCH UNIT

ORGANIZATION:

There was no change in the United States Army Aviation Human Research Unit or Human Resources Research Organization--Division No. 6 (Aviation) organization during the reporting period.

PERSONNEL:

LTC Robert O. Carter replaced LTC Dunell V. Schull as Chief of USAAVNHRU on 11 May 1970. Dr. James W. Dees replaced Dr. Wiley R. Boyles on 7 October 1970 as Leader of Research Group 1.

ACCOMPLISHMENTS:

Research activities for HumRRO Division No. 6 (Aviation) are outlined in Department of the Army, HumRRO Work Program for FYs 1970-71. Division work units are as follows:

WORK UNIT UPGRADE

Work Unit UPGRADE is designed to study the relationships among job requirements, training, and manpower considerations for aviation maintenance. Specifically, the objectives of the study are to develop techniques for gathering task data and procedures for translating these data into effective training programs; to develop techniques to assist in the definition of school and unit training responsibilities; and to study the effect of non-use of training on morale, retention in service, and proficiency of aviation maintenance personnel.

During CY 1970 the following activities occurred: Analyses of data from the world-wide survey of UH-1 mechanics and maintenance supervisors were completed. Draft reports on (1) background, training, and general maintenance activities of UH-1 mechanics, (2) specific UH-1 maintenance task performance data, and (3) allocation of school and unit training responsibilities were completed and submitted for review. Work was begun on a fourth draft technical report describing techniques for the development and utilization of aviation maintenance job description data. These reports are all scheduled for publication in CY 1971. The survey data were made available to the Aviation School and the Transportation School for their use in maintenance training systems engineering efforts.

WORK UNIT SYNTRAIN

Work Unit SYNTRAIN is concerned with expediting applications of advanced training technology in the design and utilization of synthetic devices in Army aviation training. Specific research activities pursued during the year include:

SYNTRAIN I: Synthetic Rotary Wing Training

The research staff assisted in the development of the Synthetic Flight Training System (SFTS). HumRRO personnel supplied continuing human factors inputs to the Army Participation Group at the Naval Training Device Center and to the device manufacturer. These inputs will result in an improved training system. The SFTS will be delivered at Fort Rucker in early 1971. Data concerning pilot trainee performance gathered during Work Unit ECHO III were provided the SFTS contractor in order to facilitate his development of the automated training material. The preliminary acceptance tests of the SFTS begun on 28 September 1970 were completed satisfactorily by year's end.

A plan has been developed by the SYNTRAIN staff to test the operational suitability (i.e., training capability) of the SFTS in conjunction with the U.S. Army Aviation Test Board's Operational Service Test of the equipment. The SYNTRAIN staff participated in several quarterly progress and design review conferences on the SFTS and briefed CONARC on human factors aspects of the program.

SYNTRAIN II: Synthetic Fixed Wing Training

In January 1970, a new POI for the OFWAC instrument training phase was recommended. This POI was expected to reduce the required student pilot flight time in instrument and multi-engine training from the present 60 hours to 40 hours with the use of a twin engine fixed wing instrument trainer (GAT-2). Progress was delayed for several months because of contractual problems in the civilian-instructed fixed wing instrument program. Development of the new POI began in June 1970 and a demonstration of the effectiveness of the program proceeded from October through December 1970. Results indicated the flight time could be reduced by at least 25 hours. Delivery of the program data to the USAAVNS was completed in December 1970. A paper T-42 trainer was delivered to the Department of Advanced Fixed Wing Training in November 1970 for utilization in cockpit procedures training.

WORK UNIT MANPROBE

Work Unit MANPROBE is designed to identify and assess perceptual-cognitive functions associated with manned aerial reconnaissance and surveillance (R&S) tasks important to the success of operational R&S missions.

MANPROBE I: Identification of Crew Member Information Processing Requirements in Aerial R&S Missions.

OBJECTIVES: The objectives of MANPROBE I are: (a) to determine the nature of aerial R&S missions performed in combat to include the concept of operation, the flight mode, and the types of R&S equipment utilized; (b) to determine the method of utilization of R&S equipment by aircrew personnel; (c) to determine the kinds of interaction between aircrew personnel and the operational environment; and (d) to analyze the interactions between operator and environment in terms of information sources, information density and mode of information handling.

The MANPROBE I staff continued work on a draft report for the sub-unit. Data analysis of information handling requirements for aircrews in five reconnaissance and surveillance aircraft, i.e., OV-1B, OV-1C, O-1, LOH, and UH-1 was completed. The detailed structure of these common events was described and classified according to the type of information handling task involved. A review of the structured details of each event was initiated with the assistance of knowledgeable aviator personnel to insure the adequacy of the representation. A psychological model of aircrew information processing was developed, and a draft technical report was prepared documenting these results. In addition, a number of conferences and discussions were held with the Combat Development Command and the U. S. Army Aviation School concerning requirements for additional research in the area of manned aerial reconnaissance.

WORK UNIT PREDICT

Work Unit PREDICT is designed to develop operational systems for predicting performance of Army aviators during training and operational assignments by means of computerized multiple regression equations and probability tables. The initial system has been designed for use in secondary selection in the aviation training program. The following is a description of research progress on Work Unit PREDICT.

PREDICT I: Compilation of Existing Data, and Development of Intercorrelational Matrices and Predictive Equations

OBJECTIVES: To develop two operational systems for predicting student performance during Army aviation training. The first of these is intended to supplement primary selection procedures by providing information to training managers on the probability of successful completion of initial rotary wing training by students who have been referred for elimination or recycling. The second system will be used for selection of students to receive helicopter gunnery training.

The PREDICT staff continued the massive effort of data collection and analyses of data on the FY 69 and FY 70 student aviator classes. The normal data collection effort was impeded by a large number of incomplete personnel records from which necessary information had to be extracted. Some delay in the work program was experienced because of personnel losses. Regression analyses of the phases of training for FY 69 warrant officer candidates (WOCs) at the U. S. Army Helicopter School were completed. Predictor equations for five stages of training were completed. These stages are: (1) Start preflight (2) end preflight (3) after five graded presolo flights (4) end presolo and (5) end primary. Analyses of additional data are underway. Several additional predictors are being investigated for inclusion in the data bank and a rationale for the development of an optimal class standing has been derived. The predictor equations were provided to the Primary Helicopter School for preliminary implementation.

ER 84 - RETENTION OF ARMY FLYING SKILLS

OBJECTIVES: To determine the nature and rate of loss, and the rate of reacquisition of flying skills by Army aviators who have been in flight excusal or proficiency flying (Category B) status for periods of up to three years.

A requirement from the Department of the Army to explore the retention of Army aviator flying skills was received in July 1970. Extensive background data were received and analyzed and a general experimental approach to the program was finalized by the research staff. This approach seeks to provide developmental data at the earliest practical date, while minimizing expected difficulty in obtaining experimental subjects. Due to statistical considerations in the experimental design, a questionnaire survey of pilots who have experienced extended periods of flying excusal was developed and will be distributed in early 1971. In addition to the survey, a theoretical analysis of pilot skills for a typical IFR mission has been accomplished as a basis for subsequent in-flight evaluation of flight skill decay and reacquisition.

TECHNICAL ADVISORY SERVICE

In addition to the aforementioned work units, HumRRO provides Technical Advisory Service (TAS) to the USAAVNS, USACDAVNA, USABAAR, USAARL, USAAVNTBD, and a variety of other U. S. Army agencies. The following is a description of principal actions effected during the year by TAS:

An extensive effort of TAS support was committed to a study of lessons learned in the implementation of CONARC Reg 350-100-1 (Systems Engineering of Training). A consulting report was provided to CONARC and USAAVNS, wherein revisions to the regulation and corrective procedures were recommended.

Human factors assistance and observations were provided for the Iroquois Night Fighter and Night Tracker (INFANT) system, and the AH-56 Cheyenne development program.

UNITED STATES ARMY AVIATION TEST BOARD

MISSION:

USATECOM Regulation 10-21 defines the Board's mission as:

- (1) Plan, conduct, and report on service tests (STs) and Check tests (CKs) of aircraft, aircraft components, and subsystems and ancillary equipment.
- (2) Participate in engineering tests (ETs), initial production tests (IPTs) and appropriate preproduction tests (PPTs) as directed.
- (3) Provide advice to proponent agencies and materiel developers during the development of aircraft, aircraft components, and subsystems and ancillary equipment. Data and information derived directly from test experience will provide the basis for such advice.
- (4) Conduct other tests and evaluations as directed by the Commanding General, U. S. Army Test and Evaluation Command.

REORGANIZATION:

The Headquarters, U. S. Army Test and Evaluation Command standardization of organizational structure for service test boards was implemented during January 1970. This reorganization was accomplished within authorized manpower resources. The change strengthened command and control of major functional areas, and improved lateral and vertical contacts and coordination. In addition, personnel turbulence caused by constant organizational changes will be eliminated and there will result improved utilization of manpower spaces and personnel.

PERSONNEL:

Authorized personnel strengths decreased from 418 military and civilian personnel at the close of 1969 to 389 at the close of 1970. Key personnel assigned during the year were:

President:	COL Daniel G. Gust, IN	
Deputy President:	COL Louis A. Williams, IN	
Executive Officer:	LTC Paul F. Bolam, SC	
CO, HHC:	CPT William A. Reavis, IN	Jan - Apr 70
	CPT Peter R. Bernardo, Jr., TC	May - Nov 70
	CPT Eugene P. Markowski, AR	Nov - Dec 70

RESOURCES CONSERVATION PROGRAM:

The US Army Aviation Test Board exceeded goals established in the Resources Conservation Program by 188% for FY 70 and by 28.7% for the mid-year goal for FY 71.

PROMAP 70:

Activities in support of the Program for the Refinement of the Materiel Acquisition Process - 1970 included training of 55 persons to improve the quality of test and evaluation personnel; submission of over 1350 EIR's to improve reliability of weapons systems; and extensive participation in the writing of Materiel Test Procedures to

improve the effectiveness of test and evaluation procedures.



METHODOLOGY AND OPERATIONS DIVISION

PROJECTS:

During CY 1970, the Test Board averaged 107 test projects in the planning, active testing or reporting phases. 67 projects were completed during the year and 60 new test projects were initiated. These projects varied from the Tropic Service Test of the OH-58A Helicopter in the Panama Canal Zone, TBO Extension Programs on the UH-1, AH-1G, CH-47C Helicopters, and a Service Test of an Aircraft Maintenance Airmobile Shop Set. A total of approximately 17,748 flying hours were accumulated on the assigned projects of which 13,967 were flight test hours and 3,781 were support flight hours.

CHEYENNE:

Active participation by Test Board project personnel was started this year on the AH-56 (Cheyenne) Advanced Aerial Weapons System project. This was specifically in the Tube-Launched Optically Observed Wire-Guided (TOW) missile and subsystem evaluations. Two test pilots from the Aviation Test Board were the first Army pilots to fly aboard the Cheyenne on a research and development test flight.

METHODOLOGY:

Several studies have been completed during 1970 for improving test methodology at the Test Board. These include a study of temperature, winter environment, development of questionnaires, laboratory tests of avionics equipment, flight data recorders systems,

and automatic target scoring system. The application of these studies will improve methods of testing; thereby, improving the Test Board's end product -- the Report of Test.

TEST DIVISION

ACCOMPLISHMENTS:

The Test Division had an average of 80 test projects in the active testing or reporting stages of progress. The projects varied from service test of the OV-1D Airplane to service test of lightweight underwear. Some of the more important tests conducted were:

- (1) Tropic Service Test of the OH-58A Helicopter in the Panama Canal Zone. This was the first Army helicopter to undergo Tropic tests by the Board.
- (2) Predeployment tests of the HAC and AGC FLIR, The INFANT-B, and the COBRA night sight. These tests required some 100 hours of night flying.
- (3) Service Test of the OV-1D Surveillance System. Portions of this test completed this year are:
 - a. Desert Test at Yuma Proving Ground, Arizona.
 - b. Electromagnetic Compatibility with Air Defense Board systems at Fort Bliss, Texas.
 - c. Service test of surveillance systems at the USAAC&EBD, Fort Bragg, North Carolina.
 - d. Temperature Test at Fort Rucker, Alabama.
- (4) Product-Improvement Test of the AH-1G Tractor Tail Rotor. This test was conducted to determine whether this tail rotor could be used on the AH-1G to improve the light performance over that of the standard tail rotor.
- (5) Product-Improvement Test, Phases I and II, of the T53-L-13 Engine. These tests were conducted to establish operational time limitations on the engine. On the basis of this testing, the hot-end inspection interval was increased from 300 to 600 hours and a 1,200-hour time between overhaul (TBO) was established. The feasibility of extending the TBO to 1,800 hours with a hot-end inspection due each 900 hours was also investigated. A program was initiated to attempt to raise the TBO of the AH-1G/UH-1 transmissions to 1500 hours.

SCHOOLS:

The Phase A TOW Missile Ground School for the AH-56A was conducted by Lockheed Aircraft Corporation at Castle Dome Heliport, Yuma Proving Ground on 16 - 30 September 1970. Five members of the Board were students at this school.

Two Board pilots remained at Yuma Proving Grounds, Arizona, after completion of this school to participate in Phase A TOW missile Tests. Six members of the Board attended ground school for the AH-56A on 7 - 18 December 1970. This course was conducted by Lockheed in conjunction with future testing of the AH-56A by the Army.

LOGISTICS AND TEST SUPPORT DIVISION

PLANS AND PROGRAMS IN SUPPORT OF TEST PROJECTS:

Coordination, manpower, and materiel support was provided for projects during the

calendar year. Projects such as the OH-58A Reliability Test were active continuously for a nine month period. Support consisting of range availability coordination and scheduling and the transportation and handling of 400,000 rounds of 7.62mm ammunition were two items which required continuous participation. Most other projects were supported on a day-to-day basis. The US Army Aviation Test Board's operating facilities support services requested from the US Army Aviation Center Engineers consisted of 48 job order requests. 28 requests for telephone installation and maintenance service were submitted to DC-E, USAAVNC, during this calendar year.

During 1970 the Logistics Management Branch was faced with a continuous shortage of funds, both consumer funds and stock funds. By a concerted effort by all personnel assigned all projects were fully supported and none were delayed due to lack of funds or supplies. On hand inventories have been decreased by \$375,600 during 1970. This was accomplished by continuous review of all stockage items and reducing the requisitioning objective quantity on all items stocked and only adding those items that fully meet the requirements for stockage. The NORS (not operationally ready/supply) rate was as low or lower throughout the calendar year 1970 even though funds were critical throughout the year.

During calendar year 1970, the Logistics Management Branch has made great progress in decreasing the quantity and number of items previously stored in Open Storage by rewarehousing and excessing materials. There has been more than 50% reduction in the Open Storage items.



MAINTENANCE BRANCH:

The Maintenance Branch of the Logistics and Test Support Division submitted an average of over 100 Equipment Improvement Recommendations (EIR) per month for an aggregate

total of in excess of 1,350. These recommendations were submitted on test and test support aircraft consisting of seven categories of fixed and rotary wing aircraft.

OIL ANALYSIS SECTION:

During calendar year 1970 the Oil Analysis Section processed in excess of 81,000 oil and 2,000 hydraulic samples, excluding microscopic, atomic absorption and infrared testing. The Section's area covers five states in addition to the organic USAAVNTBD aircraft which submitted samples from as far north as Alaska and as far south as the Panama Canal Zone.

FLIGHT OPERATIONS BRANCH:

The pre-accident plan for Apalachicola, Florida, is being rewritten to provide for search and rescue operations utilizing USAF personnel and aircraft. A coordination visit was made with Detachment 5, 44th ARR Sqd, Tyndall AFB, Florida and it was determined that the response time from Tyndall AFB would be considerably faster than from Fort Rucker. Apalachicola is approximately 65 nautical miles closer to Tyndall than to Fort Rucker.

PHOTOGRAPHY AND GRAPHICS BRANCH:

The Photography and Graphics Branch designed camera fixtures and controls to satisfy inflight and ground remote control photographic documentation requirements of items undergoing tests, particularly weapons and weapons systems.

UNITED STATES ARMY BOARD FOR AVIATION ACCIDENT RESEARCH

ORGANIZATION:

During CY 70 USABAAR moved forward in providing centralized direction for the Army Aircraft Prevention Program. The departmental organization structured in CY 69 was retained with small variations to increase USABAAR's capability to respond to Department of the Army and the field. Specific tasks and functions were realigned and personnel staffing was increased in order to cope with USABAAR's expanded role in aircraft accident prevention.

A concerted effort was made to identify the principle causes of materiel failures and develop recommendations to improve the reliability of equipment. Secondly, a revolutionary approach was initiated to describe accident cause factors. ABACUS which stands for Aircraft Basic Accident Cause Factors, U.S. Army, was developed by USABAAR to encode a more detailed description of the accident cause factors and the conditions preceding the critical event which makes an accident unavoidable. ABACUS has proven to be a viable procedure which lends itself to quality control measures, eases the retrieval tasks and facilitates analysis.

Along with ABACUS the development of USABAAR's improved Data Management Information System (DMIS) progressed smoothly throughout CY 70. During Mar 70 IBM completed installation of the 360/50 computer system. Computer Science Corporation, under contract, operated the leased IBM 360/50 equipment during this calendar year. The addition of this expanded capability is considered a milestone in USABAAR's growth and will greatly enhance USABAAR's capability to collect, store, analyze and retrieve accident prevention data vital to effective Army aircraft accident prevention.

PERSONNEL:

COL Eugene B. Conrad continued to direct the efforts of USABAAR in a period of increased emphasis on aircraft accident prevention in order to conserve the aviation resources vital to the success of the Army mission.

Personnel strength was increased from 117 at the end of CY 69 to 238 at the end of CY 70.

ACCIDENT RATE/COST:

The downward trend in accident rate continued during CY 70 from 17.9 in CY 69 to 16.8 projected for CY 70. This reduction coupled with a reduction in the flying hour program (exposure) resulted in a reversal of the spiraling accident costs for the first time since the Vietnam build-up. This trend reversal accelerated toward the end of CY 70 and resulted in a 11 million dollar reduction in accident costs between the 3rd Quarter CY 70 and the same period in CY 69. A milestone was reached in November when accident costs for one week dipped to \$551,480; this is the first time that the weekly costs has dropped below 1 million dollars in 30 months.

CONFERENCES & PRESENTATIONS:

The Ninth Joint Services Aviation Safety Conference hosted by USABAAR at Ft Rucker 23-27 Mar 70 was a significant event in USABAAR's history. The conference proved to be highly beneficial in strengthening the understanding and resolution of common aviation safety problems. An impressive delegation of senior officers from the Army, Navy, Air Force, Coast Guard and civilian representatives from the FAA, NTSB, NASA and the Defense Supply Agency were in attendance.

PLANS & PROGRAMS (P&P) DEPARTMENT

ORGANIZATION:

An Aviation Safety Operation Center (ASCO) was established in Apr 70. The purpose of the ASOC is to provide centralized operational control of all USABAAR actions essential to the promotion of the US Army Aviation Safety Program and the accomplishment of the USABAAR mission.

PROGRAMS:

The Advanced Systems, Research & Analysis Division participated in the system safety aspects of the following Army programs and projects:

- AH-56A Cheyenne (AAFSS)
- Utility Tactical Transport Aircraft System (UTTAS)
- Heavy Lift Helicopter System (HLHS)
- Light Fixed Wing Reconnaissance Aircraft (CEFLY-Lancer)
- Rotorcraft Engineering Handbook
- System Analysis of High Time UH-1B Aircraft

SURVEYS:

Surveys of aviation personnel in RVN were conducted to determine (1) the implementation of corrective actions recommended by aircraft accident investigation boards and (2) the attitudes and opinions of aviation unit commanders on aviation accident prevention programs.

STUDIES:

In-depth statistical studies were initiated in CY 70 on aircraft fires, crew orientation errors, aircraft materiel failures, improved aircraft systems analytical techniques and improved aircraft crashworthiness criteria.

AIRCRAFT ACCIDENT REVIEW & ANALYSIS (AAR&A) DEPARTMENT

AIRCRAFT ACCIDENT INVESTIGATIONS:

AAR&A personnel participated in 24 accident investigations in CONUS and one overseas during CY 70.

DIVISION PROJECTS:

Numerous projects were assigned to and completed by AAR&A Department. The most significant projects are listed below:

Analysis of U.S. Army accident experience involving inflight fires revealed shortcomings in the detection system on UH-1 aircraft. A joint service effort has been effected to provide statistical data to USABAAR which will reflect their experience and problems with the fire detection system. This project is being continued at this time.

UH-1 and AH-1G series hydraulic system plumbing failures. This project identified a specific hydraulic line on the UH-1D/H aircraft that failed at a consistently higher

frequency than all other lines. This resulted in a modification to production aircraft to preclude future failures of this line.

A project was undertaken concerning T53-L13 engines. Failures of the 4th stage compressor disc prompted research studies, development and testing, culminating in ECP 176R1 which provides for a titanium compressor rotor.

Grounding of CH-47C aircraft with T55-11 engines. Engine problems are being evaluated. Interim fix calls for removal of L-11 and installation of T55-7C engine.

SAFETY EVALUATION:

A safety evaluation of the UH-1H+ was completed during second quarter CY 70. The evaluation provided a brief summation of USABAAR's analysis of known and predicted problem areas of the proposed UH-1H+ system based on accident experience compiled on the UH-1 and AH-1G aircraft. During the analysis, primary emphasis was directed toward identifying and documenting hazards associated with aircraft systems, product quality assurance and the operational environment of the aircraft.

STUDIES:

A brief description of three major studies conducted in 1970 are listed below:

An in-depth analysis of 56 midair collisions involving Army aircraft was conducted. The results were published and disseminated to all commands.

An analysis of wire strike hazards was conducted. Findings and recommendations were disseminated to Headquarters, USARV, U.S. Army Aviation Center and U.S. Army Primary Helicopter Center/School.

An in-depth analysis was conducted concerning revetment strike mishaps. The findings and recommendations were disseminated to Headquarters, USARV and all appropriate commands.

LIFE SUPPORT SCIENCES (LSS) DEPARTMENT

FORMAL EDUCATION:

Personnel conducted 37 hours of classroom instruction in the Aviation Safety Orientation Course, Advanced and Basic Army Aviation Medical Officers Course, and Senior Medical Department Officers Aviation Orientation Course.

INFORMATION AND ASSISTANCE:

During CY 70 LSS Department provided information, statistical data and accident/injury factors to over 200 requestors outside USABAAR.

EDUCATION AND PREVENTION (EDP) DEPARTMENT

ACCIDENT PREVENTION SURVEYS:

Two aircraft accident prevention surveys were conducted at Ft. Bragg to evaluate aviation operations and facilities from the standpoint of accident prevention.

FORMAL AVIATION SAFETY EDUCATION:

The following courses are designed as formal instruction, giving commanders and aviation personnel training in aircraft accident prevention:

- Army Aviation Accident Prevention Course (AAPC).
- Army Aviation Safety Course.
- Army Commanders and Staff Officers Aviation Safety Orientation Course.

ARMY AVIATION SAFETY PRESENTATIONS:

One of the most effective means of furthering the Army Aviation Safety Program is through personal contact with aviation safety personnel. E&P Department has made 35 aviation safety presentations during 1970.

BROKEN WING AVIATION SAFETY AWARD:

This award was established for aviators who have displayed extraordinary skill, judgment, and technique in recovering an aircraft from an in-flight emergency. One-hundred and fifty-six nominations were reviewed and processed in 1970. Fifty-two were approved and the remainder were disapproved or returned for additional information.

SAFETY EDUCATION LITERATURE:

The Publications and Graphics Division of the E&P Department produced accident prevention information in the following media during 1970:

Three-hundred and thirty-six pages of aviation safety literature and either front or back covers for each issue of the U.S. Army Aviation Digest. USABAAR's input consisted of information extracted from aircraft accident reports and articles written by USABAAR personnel, manufacturers, U.S. Army Aviation Systems Command personnel and University of Southern California students.

Fifty-two issues of the Weekly Summary, containing aircraft accidents, incidents, forced landings and precautionary landings information.

Six issues of the National Guard Summary, containing aircraft accidents, incidents, forced landings and precautionary landings information, published in the Weekly Summary.

Mid-Air Collision Study.

Aviation Safety Officer Kits. Approximately 700 kits of aviation safety material were distributed to requesting agencies.

DATA CENTER

DA FORM 2397 SERIES REVISION:

This project was begun in November 1968 as a part of a DOD program to bring into being uniform aircraft accident reporting and data system among the Army, Navy and Air Force. After the new forms were field tested and required changes made and final staffing by USABAAR, the forms and related changes to AR 385-40 and 95-5 were forwarded to the Department of the Army during April 1970 for staffing, approval and publication.

REQUESTS FOR DATA:

During the year 1970 the Data Center fulfilled 224 data requests for USABAAR, as well as other DA agencies and worldwide accident prevention agencies.

UNITED STATES ARMY COMBAT DEVELOPMENTS COMMAND

AVIATION AGENCY

MISSION:

The Commanding Officer, USACDC Aviation Agency, will accomplish the following tasks within the USACDC Combat Arms Group assigned areas of responsibility:

a. Using the approved concept and doctrine studies as a basis, develop the basic aviation derivative studies to ensure the timely completion of each Army Combat Development Program.

b. Develop other aviation follow-on combat derivative actions for doctrine, materiel, organization and evaluation for less than division size units for each Army Combat Development Program.

c. Monitor the combat developments program of developmental institutes within the area of prponency to ensure appropriate and timely response to input requirements approved by higher headquarters.

d. Perform other combat developments actions as directed.

PERSONNEL:

The USACDC Aviation Agency was authorized 52 officers, 9 enlisted men and 32 civilians as of 31 December 1970.

ACCOMPLISHMENTS:

a. Monitored developmental effort on the following items of equipment:

Clothing System for Army Aviation Crewmembers (ACN 7027)

Integrated Ground Airborne Avionics System (ACN 11899)

Position Fixing & Navigation System (ACN 2069V)

Infrared Emission Suppression Device (ACN 2123)

Portable Navigation Aid (ACN 0714)

Voice Warning Systems for Army Aircraft (ACN 7012)

TACAN (ACN 16069)

Rotor Blade Radar (ACN 16071)

Anti-Icing/De-Icing Equipment for Helicopters (ACN 2355V)

Tactical Aircraft Guidance System (ACN 13622)

Aircrewman Protective Armor Equipment

b. Provided general monitorship and/or comments on the following aircraft systems or aircraft associated equipment:

Aerial Armored Reconnaissance Vehicle/Advancing Blade Concept (ACN 17146)

AH-1G Cobra (ACN 7379V)

Medium Transport Helicopter (CH-47C, CH-54A & CH-54B (ACN 7505)

Utility Helicopter (UH-1()) (ACN 6223V)

Helicopter Escape System (ACN 15976)

Surveillance Target Acquisition Night Observation

Individual Survival Vest for Aricrewmembers (ACN 13184)

Aircraft Area Weapons System (ACN 12881)

Life Support Equipment (ACN 16452)

c. The following proposed qualitative materiel requirements were prepared:

Airborne Battlefield Lighting Equipment System (ACN 11976)

Air to Air Weapons System for Army Aircraft (ACN 12521)

Absolute Altimeter (ACN 14210)

Emergency Beacon & Voice Transceiver (ACN 3648V)

Aerial Antipersonnel and Antimateriel Weapons System (ACN 2355)

Helicopter Landing Zone Mine Clearance Device (ACN 3103)

Army Helicopter Point Target Weapons System (6997)

Remote Area Approach & Landing System (ACN 6630V)

Remote View Night Vision System (ACN 2078)

d. The following is a list of Field Manuals prepared for publication by USACDAVNA during CY 70:

FM 1-5, Aviation Company was rescinded and pertinent material from this field manual was published as Change No. 1 to FM 1-15, Aviation Battalion, Group and Brigade.

e. During CY 70, USACDAVNA completed the following Tables of Organization and Equipment:

TOE 1-357G, Assault Helicopter Company

TOE 37-87T, Aviation General Support Company, Infantry (Mechanized) Division

f. USACDAVNA monitored tests on the following items of equipment during FY 70:

Emergency Beacon & Voice Transceiver, AN/URC-68

Remote Night View Vision System

Voice Warning System (LOH Helicopter)

Standard Lightweight Avionics Equipment (AN/ARC-114 & 115)

Integrated Avionics System Military Potential Tests:

AN/ARN-80 and AN/AVN-210

VOR - ILS

Marker Beacon System

Light Observation Helicopter (OH-58A)

Army Manual Air Traffic Control System

Ground Support Equipment

Drop Flare Subsystem for Army Aircraft

g. Other Accomplishments:

A study on Proposed Joint Doctrine for U.S. Army use of the Airspace over the Combat Zone was completed.

The STOL Fixed Wing Airplane Study was completed.

Phase II of the Utility Tactical Transport Aircraft System Concept Formulation Study was distributed. Work on Phase III continued through CY 70.

A Heavy Lift Helicopter Concept Formulation Study leading to the preparation of a proposed qualitative materiel requirement for a Heavy Lift Helicopter was initiated .

A study to support establishment of separate manpower authorization criteria for aircraft crewchiefs was initiated.

A total of 174 Operational Reports-Lessons Learned from Vietnam were reviewed and pertinent data extracted.

Six Vietnam debriefings were conducted.

UNITED STATES ARMY AEROMEDICAL RESEARCH LABORATORY

MISSION:

The US Army Aeromedical Research Laboratory mission is to conduct timely studies on current and anticipated research problems of fundamental or immediate nature. The research will be relevant to Army aviation and airborne physical performance standards, medical aspects of retention and selection, training, operations, and recommendations, and consultative service will be furnished to elements of the Army, DOD, and other appropriate federal and civilian agencies or institutions.

Liaison will be maintained with Army, Navy, Air Force, Federal Aviation Agency, and other federal and civilian institutions concerned with aviation and airborne activities. Collaborative studies will be performed whenever possible in order to avoid unnecessary duplication.

ORGANIZATION:

As of 1 July, based on increased aviation needs, USAARL reorganized its infrastructural operations to include six major divisions. They are:

- Administrative Services Division
- Aviation Psychology Division
- Aviation Research Medicine Division
- Bioengineering & Evaluation Division
- Biophysics Division
- Technical & Logistical Services Division

The Laboratory Vivarium, began in November 1969, was completed in February 1970. This facility has enhanced the research capability of the entire laboratory.

Funds which have been allocated for FY 72 will allow USAARL to have a complete Automatic Data Processing capability. This system will greatly increase the data reduction capability of the laboratory and give better utilization of statistical information.

PERSONNEL:

Personnel authorization at CY 70 was 59 (16 officer, 22 EM, 21 civilians). In addition to authorized staff, the laboratory has 6 research subjects assigned.

GENERAL:

USAARL's research program during the year was developed as the result of in-flight observations, field problems reported by other aviation agencies, and the technical evaluation of aircraft and personal equipment as related to the medical aspects of man-machine capability. This program, although primarily directed to the immediate solution of operational problems, also had a more solid base in fundamental research projects. Investigations ranged from long-term studies in color vision and hearing loss to the more immediate problems associated with the helicopter and airplane cockpit environment.

ACCOMPLISHMENTS:

Accomplishments during the past year include:

An Airborne system capable of simultaneously measuring pilot and helicopter performance in all degrees of freedom has been designed, built, and is being installed in the unit

JUH-1H Aircraft.

The US Air Force selected USAARL to develop methodologies for thermal barrier clothing evaluation and funded their portion of this joint effort.

Established a broad technical base and capability to accurately measure and evaluate post crash fire characteristics of helicopters and their effect upon human survival.

Developed a functioning technique for obtaining in-flight electro-encephalograms of sufficient quality to permit neurological study of helicopter aircrew.

During CY 70 the following USAARL Reports were published:

USAARL Report 70-5, Measurement of Toxic Hazard Due to Firing the Weapons of the UH-1B Armed Helicopter.

USAARL Report 71-9, Medical and Physiologic Effects of Ejection and Parachuting An Overview.

USAARL Report 71-10, Problems of Adaptation of Long Range Large Scale Aerial Troop Deployments.

The following joint Army-Navy reports were published:

USAARL Report 70-14, (NAMI-1107) Orientation-Error Accidents in Regular Army Aircraft During Fiscal Year 1967: Relative Incidence and Cost

DISTRIBUTION

5 - SGS
10 - DPCA
160 - DPTSEC
10 - DIO
2 - DC-E
5 - Compt
2 - SJA
2 - IG
2 - DOAM
2 - DFAE
2 - MISO
5 - IO
2 - USAAVNS Sec
10 - Dept RW Tng
10 - DOT
10 - Dept Adv FW Tng
5 - DOI
5 - DOMT
5 - DSAT
5 - DOSS
5 - DAET
5 - NRI
5 - ODDL&P
2 - Acft Acdt Investigation Board

10 - MEDDAC
20 - Hq Cmd
35 - USAAVNS Bde
20 - 6th Bn
20 - 53rd Avn Bn (CBT)
20 - 83rd Engr Bn
5 - USAAVNTB
5 - USACDCAVNA
5 - USABAAR
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75 - USAAVNS Element, Hunter AAF, GA
5 - USAAVNS Library
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2 - Det 9, 16th Wea Sqdn
5 - Chief, Military History,
Washington, D. C. 20315
5 - CG, CONARC, ATTN: DCSOPS
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