

US Army Aviation Training Library
Fort Rucker, Alabama 36360



**U.S. ARMY
AVIATION CENTER
FORT RUCKER, ALABAMA**



**1969
ANNUAL
HISTORICAL
SUPPLEMENT**



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Office of the Adjutant General
United States Army Aviation Center
Fort Rucker, Alabama

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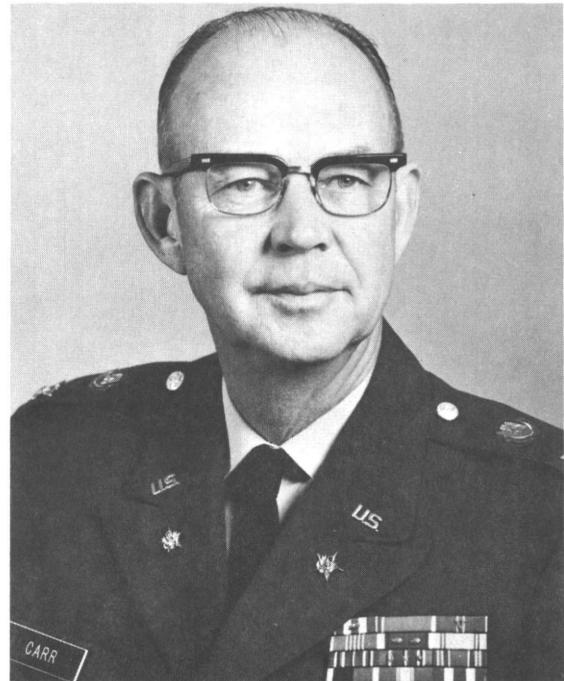
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**MAJOR GENERAL DELK M ODEN
COMMANDING GENERAL**



COL BILL G. SMITH
ASSISTANT COMMANDANT,
USAAVNS



COL FRANK F. CARR
DEPUTY CENTER COMMANDER,
USAAVNC



COL SAMUEL P. KALAGIAN
CHIEF OF STAFF, USAAVNC

PREFACE

This annual supplement is a resume of the historical events in which Headquarters, United States Army Aviation Center participated during Calendar Year 1969. 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 staff and activity chiefs 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 chiefs, which are filed in this headquarters.

This report was prepared in compliance with Headquarters CONARC Regulation 870-2 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 1969 annual supplement is the fifth 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.

H I S T O R I C A L B A C K G R O U N D

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 29 Jan, Major General Delk M. Oden attended the ribbon-cutting ceremony, and opened Rucker's new \$508,000 commissary.

Colonel Elizabeth P. Hoisington, Director of the Women's Army Corps (WAC) was at Rucker on 13 Feb to visit with members of the corps on post.

In February, Command Sergeant Major William L. Slape, Ft Rucker's highest ranking enlisted man, a veteran of 27 years service and three wars, retired from active duty.

On 21 March, Ft Rucker's five-story bachelor officer quarters, costing \$1,144,000, opened with a formal ribbon-cutting ceremony by Major General Delk M. Oden.

In April, Major General Douglas Vincent, head of the Australian Embassy in Washington, D. C., arrived to take fixed wing flight training at Ft Rucker.

On 11 May, the Army Scientific Advisory Panel convened their annual seminar at the Army Aviation Center.

Command Sergeant Major Dunaway, Sergeant Major of the Army, made a visit to the US Army Aviation Center on 26 May.

On 30 May, Colonel J Y Hammack became Chief of Staff of the US Army Aviation Center. He replaced Colonel Bill G. Smith who was designated Assistant Commandant of the Aviation School replacing Colonel M. H. Parson.

In Jun, LTC W. F. Dixon replaced LTC E. Val Hoey as Secretary, US Army Aviation School.

On 1 July, Major General Delk M. Oden addressed approximately 1000 persons at the ribbon-cutting ceremony that opened Ft Rucker's new \$715,000 Post Exchange.

General William C. Westmoreland, Chief of Staff of the Army, made a command visit to Ft Rucker on 16 Jul.

In July, Command Sergeant Major Clifton A. Wagner succeeded Command Sergeant Major Rolf L. Bass as Command Sergeant Major of the US Army Aviation School at Ft Rucker.

Colonel Frank F. Carr replaced Colonel Nelson L. Lindstrand as Deputy Center Commander of the Army Aviation School in August.

In September, Lieutenant General Albert O'Connor, Commanding General, Third US Army, presented awards citing Fort Rucker's outstanding management improvement program and Army Community Services Program.

On 26 Oct, Fort Rucker celebrated its 14th year as a permanent military installation.

In October, CSM Virgil L. West became the US Army Aviation Center's Command Sergeant Major.

The US Army Aviation Center/School was visited by General James K. Woolnough, Commanding General, Continental Army Command in October.

In November, Ft Rucker collected \$27,002 in the United Fund Campaign under the Chairmanship of Colonel Frank F. Carr, Deputy Center Commander.

On 12 Dec, the Warrant Officer Career Development Division of the Department of Special Aviation Training graduated 88 members of the US Army Aviation School's first Intermediate Course.

ASSISTANT CHIEF OF STAFF, G1

Personnel strength at Fort Rucker - 31 December 1969

	OFF		WO		ENL		MIL TOT		CIV	
	Auth	Asgd	Auth	Asgd	Auth	Asgd	Auth	Asgd	Auth	Asgd
CLASS I TOTAL (PERM PARTY)	1542	1247	571	1151	6046	9084	8159	11482	2579	2564
CLASS II ACTIVITIES TOTAL	164	135	6	38	228	242	398	415	312	296
TOTAL STUDENTS		842		369		2197		4632		
POST TOTAL	1706	2224	577	1558	6274	11523	8557	16529	2891	2860

MISSION:

Advises the Commanding General, through the Chief of Staff, on all matters pertaining to personnel, administration, and security for the United States Army Aviation Center/School.

Advises the Commanding General, through the Chief of Staff, on matters pertaining to procurement, allocation, welfare, and separation of all personnel resources.

Advises the Commanding General, through the Chief of Staff, on matters pertaining to installation security; security; security regulations; security investigations; production, maintenance and dissemination of intelligence.

Performs the duties of a Major Activity Director as outlined in pertinent command operating documents.

Exercises staff supervision over intelligence, and counterintelligence training, other than established United States Army Aviation School courses, in cooperation with the Assistant Chief of Staff, G3.

Supervises the activities of the Education Division, Civilian Personnel Division, Security Division, Manpower Control Division, Personnel Management Division and Personnel Services Division.

Develops, supervises and executes a Management Improvement Program appropriate to the activities of the office as outlined in current directives.

ORGANIZATION:

The Office of the United States Army Aviation School Registrar was transferred from the Assistant Chief of Staff, G1, to the Office of the Secretary, United States Army Aviation School, effective 1 October.

The Allied Military Training Division was transferred from the Assistant Chief of Staff, G1, to the Office of the Secretary, United States Army Aviation School, 1 September.

The Safety Division was transferred from the Assistant Chief of Staff, G1, to the Assistant Chief of Staff, G3, effective 30 September.

PERSONNEL:

The following significant personnel changes occurred during CY 69:

LTC Willie T. Dixon served as the ACoFS, G1, until June when he assumed the duties of the Secretary, US Army Aviation School.

COL Paul C. Smithey assumed duties as the Assistant Chief of Staff, G1, effective 14 July, replacing the Acting Assistant Chief of Staff, G1, LTC William A. Stanaland, who returned as Deputy G1 Services. COL Smithey came to Fort Rucker from the United States Army War College, Carlisle Barracks, Pennsylvania.

LTC Albert L. Smith assumed the duties of Deputy G1 Management effective 19 May.



OFFICE OF THE ADJUTANT GENERAL

ORGANIZATION:

A Central In/Out Processing Office was established 21 April under the supervision of Military Personnel Division. This activity is located in the old hospital area adjacent to ACS. Facility provides incoming and departing personnel a central "one stop" facility where all processing (finance, personnel, family housing, PMO, etc.) is handled.

Center/School Personnel Division underwent an AGI conducted by CONARC during April.

The annual Third US Army AGPI was conducted during June. Final report cited the AG activity as being commendable. Only minor discrepancies were noted.

The annual Civilian Personnel Survey commenced on 7 January and continued through June.

Management Improvement studies by the Management Engineering Branch, ACoFS, Comptroller were conducted throughout the Adjutant General activity.

The Fort Rucker ACS Center was nominated by Third Army to CONARC to represent Third Army in the annual selection of outstanding ACS activity.

PERSONNEL:

MAJ John A. Foster assumed duties as Adjutant General effective 1 March replacing LTC F. C. Miles who retired 28 February. MAJ Foster joined the Command following a tour with AG Section, HQ, USARVN.

MAJ Jerry W. Hendry assumed duties as Deputy Adjutant General effective 19 March upon the reassignment of MAJ Bobby A. Ramsey to the Office of the Inspector General.

MAJ Luther T. Martin assumed duties as Chief, Military Personnel Division effective 19 March.

MAJ Louis M. Butt, Jr., assumed the duties of Chief, Center/School Personnel Division on 13 January.

CPT Raymond R. Andrae continued as Chief, Administrative Services Branch.

Mr. Foy K. Heath was promoted to GS10 on 28 September and assumed duties as Records Management Officer.

ACCOMPLISHMENTS:

During CY 69, Fort Rucker continued to lead the other Third Army installations of comparable size in the Reenlistment Program. Following are awards received during the year:

Third Quarter, Fiscal Year 1969 (January - March)
RA Careers Category

Fourth Quarter, Fiscal Year 1969 (April - June)
RA First Term Category
Group II
Highest Overall Reenlistment Rate

First Term RA Category Fiscal Year 1969
Overall Award 1 July 68 - 30 June 69)

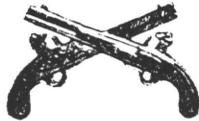
First Quarter, Fiscal Year 1970 (July - September 69)
Group II

Second Quarter, Fiscal Year 1970 (October - December 69)
Group II

US Army Aviation Center established a new reenlistment incentive awards program in July. A reenlistment trophy is presented to the Major Subordinate Command that obtains the highest reenlistment percentage on a quarterly basis:

USAAVNS Regiment - First Quarter, Fiscal Year 70 171.53%

USAAVNS Regiment - Second Quarter, Fiscal Year 70 176.34%



OFFICE OF THE PROVOST MARSHALL

ORGANIZATION:

The Third US Army Provost Marshal visited Fort Rucker on 20 January, to inspect the confinement facility. It was determined at this time to close this facility due to small number of prisoners being processed and the close proximity of Fort Rucker to Fort Benning, Georgia.

On 31 January, the Confinement Facility at Fort Rucker was officially closed. All remaining prisoners were transferred to the Confinement Facility at Fort Benning, Georgia, per instructions of Third US Army Provost Marshal Office.

The Provost Marshal, Fort Rucker, who is President of the Eglin Air Force Base Area Armed Forces Disciplinary Control Board, was host to the February meeting of the Board.

The Provost Marshal Vehicle Registration Branch was relocated to Building 8730 as part of a program to assist personnel in "inprocessing" to the Post at a central location.

During June, this office received its Annual General Inspection by Headquarters, Third US Army. No major discrepancies were noted.

The Provost Marshal was host to an operational-type meeting conducted with Army Reserve personnel in connection with the Annual Reserve Training Program at Perry, Florida.

During September, this office received its Annual General Inspection by Inspector General's office, this headquarters, and was given an overall rating of satisfactory.

During first quarter of 1969, 32 National Guard personnel were assigned to the 141st Military Police Company for annual training and were utilized in various commitments commensurate with their MOS and grade.

The Traffic Branch and the Provost Marshal Investigative Branch were relocated to building 607 from building 616 for better operational control and closer proximity to PM Office and MP Station.

PERSONNEL:

LTC Mac P. Kesler was assigned to the Office of the Provost Marshal in November as replacement for LTC Frank E. Hearn, Jr.

LTC Frank E. Hearn, Jr., departing Provost Marshal, retired from active military service 31 December.

NONAPPROPRIATED FUNDS SERVICE CENTER

ORGANIZATION:

The Nonappropriated Fund Service Center was begun on 2 February with the accounting and cashier offices, i.e., furniture, machinery, files and personnel. On 1 April, the Central Post Fund was added because the Chief-NAFSC was appointed Custodian of the Central Post Fund. The NAFSC then was operated from two locations with the personnel, files, etc., of the Central Post Fund, remaining where they were.

On 1 July, the NAFSC moved into its present location at building 6612. The conversion from manual accounting to the Computer (IBM 360-20 Card) was begun with the accounts receivable of the Officers' Open Mess. The July statements to members were created on the Computer.

The Visitors' Bureau Billeting Fund was added on 1 July, as was the Elementary School Fund. No personnel nor equipment was attached. The Payroll of the Noncommissioned Officers' Open Mess was added to the NAFSC Payroll on 1 July, but the NCOOM was not brought into the Service Center until 15 October.

On 1 November, the Chief, NAFSC, was relieved as the Custodian of the Central Post Fund.

The Accounts Receivable of the NCO Open Mess were converted to the Computer for the month of November.

At 31 December, the payroll programs were written and plans were laid to begin parallel operations at 1 January 1970. Some W-2 forms were printed out for 1969 payrolls.

SPECIAL SERVICES SECTION

ARTS & CRAFTS DIVISION

The Arts & Crafts Division enjoyed another good year with increased participation and new equipment. A new Youth Activities function was added to the Crafts Division and works in conjunction with the Special Services Youth Activities Division. Workshops for this function are held on Tuesday and Thursday.

The 10th Interservice Photography Show was displayed during June and in July, entries for the Third US Army Photo Contest were sent in.

During the year, open house was held in all the Crafts Shops so as to acquaint post personnel with all services and facilities offered by the Arts and Crafts Division. Displays and demonstrations were held at different companies for those unable to attend Open House.

The Arts and Crafts Division observed the Army Arts and Crafts Week during December.

ENTERTAINMENT DIVISION

During CY 69, the Entertainment Division continued to entertain Fort Rucker personnel with stage plays and professional groups, along with providing off-duty relaxation for troops in music centers. The stage shows include "The Odd Couple", "The Generation" and "The Fantastiks." These stage shows utilize purely amateur talent recruited from Fort Rucker and surrounding areas.

During October, the Entertainment Division moved into the old Division Theater, allowing larger shows. The Entertainment Division played host to the Third Army Soldier Show "This is Entertainment" in June and December.

LIBRARY DIVISION

The Library Division enjoyed a year of high participation, but due to space limitations was unable to do much expansion work. New books and some new equipment were put into service.

Plans were initiated and followed up to move the existing library into the old PX building after the building has been renovated. Current plans call for the move to be made in February 1970. New furniture and additional shelves have been ordered along with many new books.

SERVICE CLUB DIVISION

During the 1969 calendar year the Service Club Division continued to provide an attractive and interesting club for off-duty enlisted personnel. The Service Club has made many improvements during the year, including carpeting and new equipment and furnishings. Plans have been made to open a new service club in the Tank Hill Area.

The Service Club offered many varied diversions for its visitors during the year. The programs ranged from professional shows to amateur shows. During the summer months, tours were organized to interesting events and places. Tournaments of all types were held at the club, with prizes going to all winners. Each month a state is highlighted and men from that state are guests of honor on "States Night." A new program "Company Couples Capers" has been started recently. Each Thursday night, young married couples from two selected companies are guests of the Service Club.

The Service Club has enjoyed a very successful year with participation and programs offered increasing with each month.

SPORTS DIVISION

The Sports Division expanded their facilities in the year of 1969 with the addition of the Hospital Swimming Pool on 5th Avenue and continued to organize and support the Post Intramural Sports Program. Tournaments were held in all sports fields, from Golf to Volleyball. The year was highlighted by the Third US Army Softball Tournament, which was held during September. In December, the Sports Division coordinated with CPT Dohmine in the establishment of the Post Basketball Team, The Fort Rucker Flyers.

RECREATION DIVISION

The Recreation Division was a big attraction for Fort Rucker personnel in 1969. Lake Tholocco and the Fort Rucker Trailer Park at Eglin enjoyed many visitors, particularly during the spring and summer.

The Trailer Park improved its facilities by installing a complete new sewage system, by replacing the old pier with a new and much longer one and by a general grounds improvement. Many new camper spaces were cleared and utilities installed. In conjunction with this, ten new camper trailers were purchased.

At Lake Tholocco 18 new boats were added and 27 outboard motors were purchased. The fishing and water sports equipment inventory was increased. The improvement of the picnic areas and beaches was continued.

The Trailer Park lost one of its big attractions when the charter fishing boat sank in October.

THEATER DIVISION

During 1969, the Theater Division moved into the new theater on 5th Avenue and continued to offer Fort Rucker enjoyable motion picture entertainment. A special hit during the year was the Saturday Morning Kiddie Show.

FORT RUCKER EXCHANGE

ORGANIZATION:

The new Main Exchange held its Grand Opening on 1 July.

Four Seasons-Toyland Store was relocated into Bldgs 9005-9006.

Scope Detection Equipment was installed in the Main Store on a 90-day trial.

This unit activated a new type vending operation on 15 March, with use of self-locking cash boxes, giving the Exchange better control and supervision over vending activities.

On 10 April, Laundry pickup points began as a direct operation of the Exchange.

On 5 August, Fort Rucker's first automatic snackbar was activated at Lowe AAF.

On 22 August, a Barber Shop in the NCO Club was activated.

On 10 November, a Barber Mobile at Shell AAF became operable.

A revised USP (Universal Salary Plan) wage schedule was implemented on 5 July.

A locality wage survey was conducted at this Exchange during August. New wage schedules for office, craft and maintenance jobs were revised, effective 25 October.

New managerial personnel were assigned to the following positions on dates indicated:

Sidney Burnhardt	Service Station Manager	January
Frank DuChamp	Retail Operations Manager	March
Richard Miller	Asst Retail Operations Mgr	June
Charles Conard	Food Operations Manager	March
Ermando P. Roviario	Services Operations Manager	February
Edwin Lee	Vending Operations Manager	July
Jerry Robinson	Asst Retail Manager	October
Jack Burton	Main Store Manager	October
Kathryn Hall	Personnel Manager	February
Joseph Vara	Asst Service Station Mgr	July
Roy Culp	Asst Service Station Mgr	August
Nell Coleman	Manager, Laundry Pickup	November

Mr. Frank DuChamp successfully completed a two-week school at Headquarters, Dallas, Texas. Course subject was Inventory Management.

Three employees listed below were presented certificates of completion for Management Development Courses on 19 December:

Sandra Parrish	Assistant Personnel Manager
Mary Julian	Assistant Personnel Manager
Richard Miller	Retail Operations Manager

The operation of Golf Course SnackBar was transferred to Central Post Fund on 10 February.

MANPOWER CONTROL DIVISION

ORGANIZATION:

Approval of the FY 69 CONARC Manpower Survey was received during Third Quarter, CY 69. Changes to recognized requirements were as follows:

<u>ACTIVITY</u>	<u>PRIOR REQUIREMENTS</u>	<u>NEW REQUIREMENTS</u>	<u>DIFFERENCE</u>
US Army Garrison	2963	2991	+28
Medical	538	580	+42
141st MP Co	122	147	+25
USAAVNS	<u>6140</u>	<u>5925</u>	<u>-215</u>
<u>TOTAL</u>	9763	9643	-120

Public Law 90-364 was lifted during the Third Quarter, CY 69; however, a 98.67 percent civilian hire ceiling versus authorizations was imposed by higher headquarters.

During Fourth Quarter, CY 69, Comprehensive Cost Analyses were performed on all Support Service Contracts utilized at this installation.

Significant civilian space reductions were imposed on the United States Army Aviation Center during each quarter of CY 69. These reductions were necessitated primarily by economy drives imposed by higher headquarters.



CENTER CHAPLAIN



Organization:

Area Chaplain coverage was established through assignments on an organizational basis. This move brought an increased proximity between troops and their unit Chaplain.

Fort Rucker Chaplains hosted the Concordia Seminary Chorus of St. Louis, Missouri, on Palm Sunday, 29 March. Approximately 560 persons attended this vocal concert.

Protestant Women of the Chapel of Fort Rucker celebrated its' Eighth Anniversary in September. Guest speaker for this three day event was Mrs. Helen Palm, prominent speaker on religious matters. Mrs. Palm resides in Virginia.

Personnel:

Chaplain (COL) Malcom Sadler continued duties as USAAVNC and Fort Rucker Chaplain.

Chaplain (LTC) Joseph P. Mulhern assumed duties as USAAVNC and Fort Rucker Deputy Chaplain.

The following Chaplains were assigned to Fort Rucker on dates indicated - all from RVN, except for CPT Missick - from civilian life via Chaplain School, Ft. Hamilton, N.Y.:

Major Ernest L. Stevens, Jr. - October
Captain Phillip A. Missick - September
Captain Arthur J. Pearce - August
Captain Edward B. Rogers - August
Captain John B. Smith - September

The following Chaplains departed to destinations on dates as indicated:

Major Lloyd R. Muilenburg - RVN - October
Major Robert F. Daniell - Germany - September
Captain Francis X. Brett - Okinawa - January



ARMY COMMUNITY SERVICE

ORGANIZATION:

The following activities were coordinated by ACS during the year:

The Wiregrass Chapter of the Gold Star Wives of America, Inc., was established and chartered, with Mrs. Jean Eastman being installed as the first president.

A Handicapped Girl Scout Troop and Cub Scout Troop have been organized under the leadership of ACS Volunteers.

Preliminary planning for the Male Adult Companionship Program to provide adult companionship for boys ages six to 14, sons of military personnel serving overseas, and sons of Gold Star Wives, will result in implementation in January 1970.

The Fort Rucker Chapter, Parents of Handicapped Children formed a Handicapped Services Library. The library is staffed five mornings a week, and all day on Wednesday, for consultation and advice on the handicapped, and related subjects. The staff will also order books and materials for parents and other interested adult personnel.

As a result of the Citizenship Classes, which have qualified some 100 foreign wives to petition for United States Citizenship, an International Citizenship Club has been formed. This group meets monthly for a dinner with appropriate dishes from various countries represented.

A training course in Financial Planning for the Family has been initiated, with an average attendance of 12 dependent wives. This course is taught by a qualified volunteer with instructional material being monitored by the Comptroller, USAAVNC.

The Bradley Center, Columbus, Georgia, has provided the service of a Ph.D Psychologist to instruct a group for training as "Volunteers and Professionals in Human Services." This course continued for a period of 10 weeks; two hours for each class, with two classes each Friday.

Preliminary planning for the Child Care Course, which will provide areas of instruction to those interested in babysitting and child care, will begin in January 1970.

ACS Coordination Committee for Health and Welfare met at Fort Rucker Officers' Open Mess every two months with representatives from social agencies in the surrounding communities. A luncheon and a short speech is the usual program.

PERSONNEL:

CPT John S. Shalett was assigned as the ACS Social Worker in September, replacing CPT Roger Johnson, who was released from active duty.

In October, Major Elwood J. Becker, Jr., was assigned as ACS Coordinator, and served as Special Assistant to the Chief of Staff. He replaced LTC Robert Henley, who departed for a National Guard assignment in Raleigh, N. C.

ACCOMPLISHMENTS:

The Fort Rucker Army Community Services Activity was selected as the best in the Third US Army for 1969, and was nominated to Headquarters, Department of the Army for DA competition.

Mrs. Howard Lukens, ACS Volunteer Supervisor, was awarded the Distinguished Civilian Service Medal for her outstanding volunteer work with the Fort Rucker Community Service Program.

ARMY COMMUNITY SERVICE VIP VISITORS REVIEWED



Above Left - Mrs. Carl Griffin (right), Mrs. Howard Lukens, Mrs. George Dunaway and Mrs. Ralph Bass discuss ACS activities. Mrs. Dunaway is the wife of Sergeant Major of the Army George Dunaway, who was on a visit of Fort Rucker.



Above - Third Army Commander, LTG Albert O. Conner presents a plaque to post commander, MG Delk Oden, honoring the Army Community Service as the best in TUSA for CY 1969.

Left - LTC Robert Henley, ACS Coordinator, explains to Mrs. Albert O. Connor, wife of LTG A.O. Connor, TUSA Commander, some of the household goods which are made available from the ACS "lending closet" to post personnel who are awaiting arrival of household items. Mrs. Delk Oden, wife of the Post Commander, looks on.

OFFICE OF THE ASSISTANT CHIEF OF STAFF, G3

ORGANIZATION:

The FY 70 CONARC School Evaluation Team visited the Fort Rucker TUSA Army Training Aids Center on 18 September, and gave the USAAVNS an excellent report.

PERSONNEL:

In March, LTC P. W. Moore became Chief of Airfield Operations.

In April, LTC R. C. Potter became Deputy Chief of Staff, ACofS, G3.

In June, LTC Potter became acting Assistant Chief of Staff, G3, replacing COL J Y Hammack, who became Chief of Staff.

Also in June, LTC L. E. Mabrey replaced LTC Moore as Chief of Airfield Operations.

In July, COL C. Buchanan became Assistant Chief of Staff, G3.

OPERATIONS DIVISION

ACCOMPLISHMENTS:

During the year the Operations Division participated in project CRISP (Cosmic Ray Ionization Spectrograph Program), a research program to investigate the characteristics of certain cosmic ray radiation at high altitude (100,000 ft). The flight was made by a balloonborne gondola carrying the equipment and instrumentation for measuring the radiation. Fort Rucker was assigned the primary recovery duty for the territory East of the Mississippi River. Two CH-47C models were supplied to the post for this purpose.

During the reporting period, G3 Operations coordinated five flyovers, 19 static displays, and 215 on-post and 34 off-post band concerts.

The evaluation of the Heliborne Crash Rescue Fire Suppression System (CRFSS), scheduled to begin 1 October, was not conducted due to the non-availability of salvage UH-1 aircraft. As a result, an In-Process Review was conducted at this installation on 1 October for the purpose of determining an alternate course of action. The review determined that the evaluation would be conducted utilizing fourteen salvage aircraft of varying models H-19, O-1, U-6, which were available from installations ranging from Kelly AFB, Texas, to Fort Dix, N. J.

The results of the In-Processing Review necessitated the resubmission of the Evaluation's budget. Headquarters, DA, in coordination with CONARC and this headquarters, determined that the Phase II Evaluation would not be funded or scheduled for a start date until the Phase I Report of Evaluation was analyzed. CONARC provided the funds (\$34,000) for the conduct of the Phase I evaluation.

G3 Operations coordinated for the recovery of a Coast Guard boat. The mission was to lift the grounded boat off of a sandbar and relocate the boat in navigable water approximately 20 feet away. A CH-54 was utilized for this mission.

TRAINING DIVISION

ACCOMPLISHMENTS:

The following units conducted ANACDUTRA at Fort Rucker on the dates indicated:

<u>UNIT</u>	<u>DATE</u>	<u>PERSONNEL</u>
3343 USA Hosp (Mobile, Ala)	1-14 June	103
323 Med Det (Memphis, Tenn)	1-14 June	4
354 Med Disp (Jackson, Miss)	1-14 June	21
306 Med Co (Nashville, Tenn)	15-28 June	119
302 Med Det (Nashville, Tenn)	15-28 June	7
588 Med Det (Memphis, Tenn)	15-28 June	7
307 Avn Co (Hvy Hel)(Birmingham, Ala)	7-9 July	118
935 QM Det (Petrol Lab)(Fourth Army)	17-30 August	8
344 Med Det (Orlando, Fla)	17-30 August	10
302 Avn Co (ATC)	7-20 September	<u>206</u>
TOTAL		603

G3 Training Division coordinated logistical and administrative support for the 143d Trans Bde (USAR, Fla) during May. Strength of the Brigade is in excess of 1500.

During CY 69, 203 installation personnel graduated from 19 service schools away from Fort Rucker with approximately 1298 personnel graduating from on-post OJT/AIT programs.

Four USAR/ARNG Battalions and fifteen separate company or smaller sized units utilized the Fort Rucker Range Complex for RSOP, AIT, ATP or annual weapons qualification training.

Two new aerial gunnery ranges were built and superimposed on existing gunnery ranges. These new ranges are now used by the US Army Aviation Test Board in aerial weapon systems testing.

The Quarterly Unit Readiness reporting system was automated to reduce transmission of formatted reports and provide an easy means of updating unit readiness on a monthly as well as quarterly basis.

USAAVNC OPORD 69-1 dtd 19 July, provided for the relocation of the 83d Engr Battalion from Fort Riley, Kansas, to Fort Rucker. This unit completed the move in five days and now conducts TOE missions training, supports aviation training and base operations.

PLANS DIVISION

ACCOMPLISHMENTS:

The following mission plans were instituted in CY 69:

A OPLAN MACAM, dated 4 February, FOUO contingency plan, provided for the continuance of aircraft maintenance in the event contract maintenance was not available at this installation.

OPLAN Rotational Base for Army Aviation Maintenance (ROBAM), dated 14 April established a concept for the rotational training base of maintenance personnel.

OPLAN Rotational Base for Army Aviators (OPLAN ROBAA), dated 6 October provides for the resources and scheduling necessary to establish a rotational training base for Army aviators.

Basic Plan, dated 29 September assembled in one document the major emergency and contingency missions and set forth concepts of operations, administrative and logistical instructions and procedures that are changed under conditions of cold, limited and general war or nuclear attack.

A Letter of Instruction (LOI) defining the command and staff relationships between the USAAVNS and USAAVNS Element was issued to the School Element 10 July. The primary purpose of the LOI is to insure that the official position of the Aviation School Element is coordinated with the Aviation School and the chain of communication concerning school mission requirements from the Element through the USAAVNS to higher headquarters is retained.

The following training was prescribed in support of OPLAN:

Quarterly rehearsals of the USAAVNS Nuclear Accident/Incident Control Plan were conducted during March, June, September and December.

Periodic training of Chemical, Biological, and Radiological personnel attached to CBRE personnel was conducted and HQ, TUSA tested the CBRE during March and September.

USAAVNC/S Survival Measure Plan was rehearsed on 15 November for the purpose of testing the Air Defense Warning System and occupation of selected fallout shelters.

The USAAVNC/S EOC added radio communication equipment necessary to conduct operations from a central location and conducted the following operations:

On 13-17 February, operations were conducted to insure the continuance of aircraft maintenance in the event contract maintenance was temporarily discontinued at this installation.

On 4-7 April, operations were conducted in support of HQ, TUSA GARDEN PLOT planning.

On 16-18 August, as a result of Hurricane CAMILLE, operations were conducted for the implementation of USAAVNC/S OPLAN Hurricane Alert and Evacuation (HUREVAC). 102 aircraft were evacuated from this installation to Hunter AAF on 16 August and returned to this installation on 18 August. Remaining aircraft at this installation were protected by stacking in hangars or being secured and protected by heavy equipment.

On 18-27 August operations as a result of Hurricane CAMILLE were conducted for the implementation of USAAVNC/S OPLAN Military Assistance to Civil Authorities (MACAP) and limited operations were continued until 4 October. The following USAAVNC/S resources were placed under the OPCON of Third US Army EOC (Gulfport, Miss): One Aviation Team, One Mess Team, and One Water Purification Team. The maximum commitment at any one time was 14 officers/warrant officers, 61 enlisted men and three civilians; five OH-6A's and four UH-1D's. Approximately 300 hours were flown in support of this mission and other minor support was provided, e.g., 37,000 combat rations, PAE support, water purification chemicals, tractor and low bed semi-trailer.

On 14-18 October, operations were conducted in support of Command Post Exercise HIGH HEELS, another unnamed test and HQ, TUSA requirements. All required objectives were achieved.

On 9 September Chief of Staff approved USAAVNC General Order 71, dated 18 September, which organized a Firefighter Company (Provisional) and attached this unit to 83d Engr Bn. This organization provides additional command and control of firefighter personnel.

USAAVNC/S SAFETY DIVISION

ACCOMPLISHMENTS:

During CY 69, the Aviation Center experienced 61 aircraft accidents in which there were 12 fatalities. The accident rate for this period is 7.73 per 100,000 hours as compared with 7.19 for CY 68.

45 recordable Army motor vehicle accidents were experienced during CY 69. The vehicle accident rate for the year was 4.36 per 1,000,000 miles driven. This rate is below the expectancy ceiling rate of 4.75 forecast for Fort Rucker by TUSA for FY 70.

110 lost-time military injuries were experienced during CY69. These injuries resulted in an injury rate of 7.41 per 1000 man-years worked. This rate is below the expectancy ceiling rate of 8.22 forecast for Fort Rucker by TUSA for FY 70.

38 Military fatalities were experienced during CY 69. These fatalities resulted in a rate of 2.56 per 1000 man-years worked. This rate is greater than the expectancy ceiling rate of 1.92 forecast for Fort Rucker by TUSA for FY 70.

Eight lost time DAC injuries were experienced during CY 69. These injuries resulted in a rate of 3.14 per 1000 man-years worked. This rate is below the expectancy ceiling rate of 3.23 forecast for Fort Rucker by TUSA for FY 70.

On 4 April, the Commanding General approved a plan to transfer Center Safety functions and responsibility from ACoS, G1 to ACoS, G3. The transfer of this function provides the command with increased safety capabilities for accident prevention and investigation in support of aviation training.

AIRCRAFT ACCIDENT INVESTIGATION BOARD

ACCOMPLISHMENTS:

During the year, the USAAVNC/S Aircraft Accident Investigation Board investigated 65 aircraft accidents. Five of these accidents involved fatalities. The total estimated cost for repairs for aircraft involved in these accidents was \$5,269,840.00.

The Aircraft Accident Investigation Board has had two presidents during CY 69. LTC William D. Brooks assumed the position on 1 June upon the retirement from active duty of LTC Frederick W. McGowan.

TRAINING AIDS CENTER

The Training Aids Center designed and fabricated a number of complex devices during the year which resulted in real time and money savings for the Government. Production of these devices also afforded effective training aids support for Army Aviation Training. Examples of these trainers are:

CH-47 Engineer Controls Trainer

CH-47 AC Generator and Generator Protection System

CH-47 Actuator, Lower Dual Boost Working Model

UH-1D Cockpit Procedures Trainer

Training Device AN/TPN 8 Radar

T53-L-13 Engine "Exploded" Parts Display

O-1 Electrical System Panel Board Trainer

O-1 Fuel System Panel Board Trainer

UH-1D Fuel System Trainer, Aux Tanks

UH-1 Oil System, Component Parts

Computer, Mock-up, T-42A, Engine Performance

Computer, Mock-up, Dead Reckoning Navigation, MB-4

Instrument Landing System Approach Segment Model

New devices received and/or accepted and assigned to the Training Aids Center during CY 69 are as follows:

Device Model 3H-18B, Target, Remote Scoring Aerial Gunnery Ranges, utilized on four different gunnery ranges at Fort Rucker by the Dept of Tactics, USAAVNS.

OH-58 Electrical Systems Panel Trainer utilized by DOMT, USAAVNS

OH-58 Instrument Systems Panel Trainer utilized by DOMT, USAAVNS

OH-58 Fuel Systems Panel Trainer utilized by DOMT, USAAVNS

OH-58 Oil Systems Panel Trainer utilized by DOMT, USAAVNS

OH-58 Composite Trainer utilized by DOMT, USAAVNS

Two GAT 2 Twin Engine Flight and Navigation Trainers for use by the Dept of Advanced Fixed Wing Training, USAAVNS.

During CY 69, a UH-1D fuel System Trainer was overhauled by the Pensacola Naval Training Device Center Regional Office. One section of the terrain for Device 17E4, Trainer, Basic Procedures Aerial Observer, was repaired to its original state from damage occurring in January. A one week repair and calibration assistance visit was conducted by Del Mar Engineering Laboratories to the 3H-18B Remote Scoring Aerial Gunnery Ranges during June.

During CY 69, the level of fabrication effort required to support the USAAVNS with effective training aids increased drastically. This increased level was due primarily to the support required for two new major courses of instruction added at the USAAVNS. These courses are the Warrant Officer Career Development Courses and the Air Traffic Control Training Courses.

On 10 March, MAJ Charles H. Jacobson was assigned as the Chief, Training Aids Division. On 15 March, Mr. Earl D. Hall was reassigned from the Education Specialist, TUSA Training Aids Center, to the Education Specialist, Secretariat for Devices, USAAVNS. On 14 April, LTC James L. Guion, Jr., departed from Fort Rucker and his assignment as Chief, TUSA Training Aids Center. On 9 November, Mr. Richard H. Grimshaw was assigned as Education Specialist, TUSA Training Aids Center.

On 30 September, the FY 69 CONARC Manpower Survey recommendations were implemented. Three GS9 illustrators were transferred to the Training Aids Center TDA but are to remain under operational control of the Department of Nonresident Instruction (Provisional). The entire Training Aids organization was transferred from the US Army Aviation School TDA to the US Army Aviation Center TDA with operational control passing from the Department of School Support to the Assistant Chief of Staff, G3, US Army Aviation Center.

16 schools were added to the area support requirement for ROTC, bringing the total to 36 schools supported by the Training Aids Center.

The Training Aids Division, authorized under the School TDA, was dissolved. Strength of the Training Aids organization changed from an authorized one officer, five enlisted men, and 25 civilians to one officer, five enlisted men and 30 civilians.

DIRECTOR OF AIRFIELD OPERATIONS

ORGANIZATION:

During the year, Fort Rucker had a total traffic count of 6,120,296. Of this figure 5,926,748 were VFR; 153,638 were IFR, and 102,809 were GCA. This is an increase over CY 68 of 1,043,361. The traffic count for the fourth quarter is broken down as follows: 1,367,361, VFR; 41,112, IFR; and 22,679, GCA for a total of 1,408,473.

During this reporting period, the Avgas refueling contract was awarded to Southern Gulf, Inc., effective 1 July; Spear Service, Inc., was the incumbent contractor. On 15 July, the contract was terminated. Mr. Jackson, manager of Spear Services, Inc., reassumed contract on 16 July. The new contract was negotiated for remainder of FY 70 to terminate 30 June 1970. During the period of 15 and 16 July, fuel service was provided by 108th QM Company of the 53d Avn Bn.

FACILITIES DIVISION

ACCOMPLISHMENTS:

During the year, coordination was affected to allocate airspace and to relocate certain existing navigational training aids to support the full instrument ticket program for Rotary Wing students. 14 NDB's were programmed to be moved and six VOR sites to be installed. Certain geographical areas were selected for proper terrain and obstruction clearance for type of equipment to be installed. Entry permits were requested for three proposed radar sites to permit site testing. Test results were satisfactory for desired coverage.

Total air traffic control personnel assigned to Airfield Operations is 331. Total number of 71P personnel assigned to Airfield Operations is 65. Breakdown is as follows: 196 93H, 101 93J, eight 93K, 26 93L and 67 71P.

ATC OPERATIONS BRANCH

ACCOMPLISHMENTS:

During the year the training section, Facilities Division, Dir of Airfield Operations graduated a total of 255 air traffic control students which included 124 Keesler Air Force Base and 111 Fort Rucker ATC Pilot Course students. This brings to a total of 575 since the activation of this branch in September 1968.

The policy of administering GCA OJT to Keesler Air Force Base ATC students enroute to SEA has been assumed by the 72d ATC Company, while the USAAVNS ATC Department completes preparation to assume this training after the first of calendar year 1970.

STAGEFIELD SUPPORT DIVISION

ACCOMPLISHMENTS:

Troy Airport facility was opened early part of the year as an operations center with full weather, flight planning and dispatch capabilities. Certification of Troy ILS was completed 25 September. Flight checks of the NDB, VOR, GCA and ILS at Troy Airport were completed 14 November and IFR certification should be awarded in the immediate future. The airport is now a rated FAA facility.

Due to the high volume of traffic handled by the stagefields, the FAA authorized certification of six towers to be VFR control towers. Controllers have taken numerous ATC practice tests in order to learn their respective three-mile area and local charts in preparation for certification tests. Preparations were initiated for the newly created Army ATC School to utilize nine stagefields for OJT in towers during their training period.

Since the annual ATC certification program was initiated, written examinations have been given to all ATC personnel with outstanding results. An average score of 84 points, out of a possible 90 points was attained by the branch personnel.

CAIRNS AAF OPERATIONS DIVISION

ACCOMPLISHMENTS:

Total traffic count for the year was 456,454. During the year, the C-47 Project Branch was transferred to Cairns Operations Division at Airfield Operations.

An FAA approved automatic terminal information service system was installed and placed into operation on 3 February.

A total of 1104 VIP's arrived and departed Cairns Army Airfield during the year. An average of 220 aircraft of 19 different types are stationed at Cairns AAF during any given quarter of the year.

MCA construction project to provide a lighted north-south taxiway and runup ramps for Runway 18/36 commenced 8 September. Estimated date of completion is February 1970.

HANCHEY AHP OPERATIONS DIVISION

ACCOMPLISHMENTS:

Traffic count for CY 69 was 291,613.

In August, Western Union installed a teletype machine in the dispatch section to receive NOTAMS: this aids the aviators in filing flight plans. Engineers repainted ramp markings and compass rose and installed grounding stakes to complete all grounding of aircraft at Hanchey AHP. VOR receiver check points were surveyed and painted during the year.

Hanchey AHP had a total of 8,291 visitors. Tours were conducted for the following groups: Moms and Dads; officers, WOC, and NCO wives, school visitors, VIP's, and other visitors were issued ramp passes.

KNOX-HATCH AHP OPERATIONS DIVISION

ACCOMPLISHMENTS:

In March, Knox split its operations, moving 59 UH-1's to Hatch Stagefield. This was done to clear the east side of the heliport so construction crews could start constructing four new hover lanes and eight landing pads (under Knox MCA Project).

The new classroom for student MCA project at Knox is well into the completion stage. The new crash station is about one-third complete. The new operations office, tower and snack bar are now in the early stage of construction as is the new parking lot.

Hatch traffic count from 1 March to end of 1969 was 192,330. This large traffic count was due to changing Hatch from preventive control to positive control. This required the installation of a ground radio. Controllers are rotated between Knox Tower and Hatch Tower monthly.

LOWE AHP OPERATIONS DIVISION

ACCOMPLISHMENTS:

During this reporting period, a NOTAM TTY receiver was installed in the Lowe Dispatch Section to aid the aviators in filing cross country and IFR flight plans. This system of NOTAM coverage deleted the inherent delay in providing current NOTAMS information and reduced the NOTAM receipt workload by approximately 75%.

During this period, all ATC controllers requiring facility ratings at Lowe Tower were administered a junior or senior facility rating exam by FAA. All controllers successfully completed the examination and all controllers assigned to Lowe AHP are FAA facility rated.

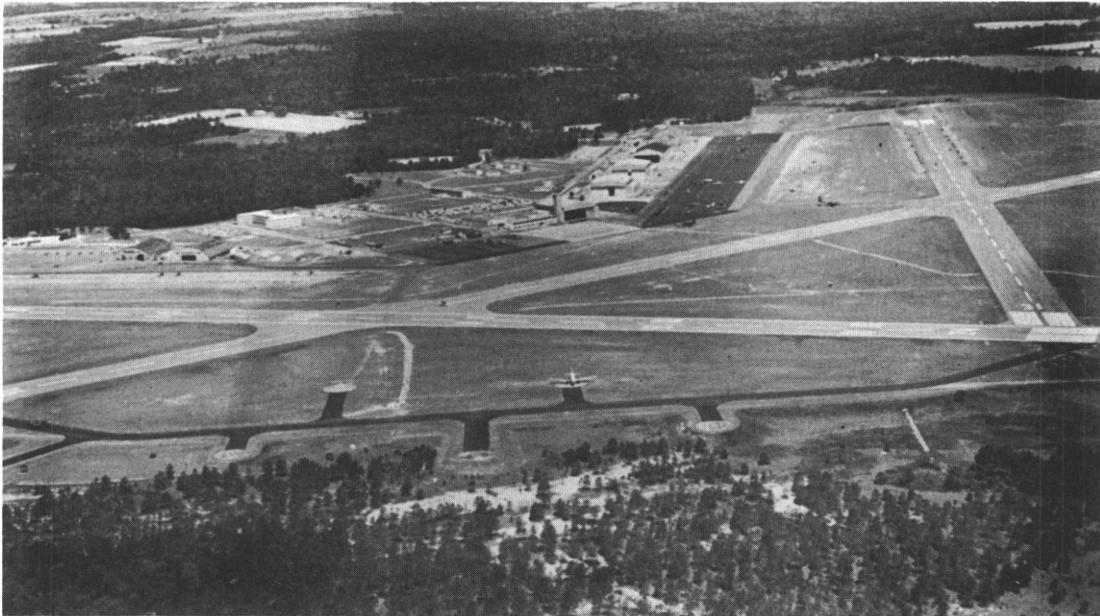
AIR ROUTE APPROACH CONTROL (Cairns ARAC)

ACCOMPLISHMENTS:

The national trend toward increased air traffic activity was graphically illustrated at Fort Rucker in CY 69. Traffic figures for Cairns ARAC are based solely on instrument operations and the count for 1969 was 162,814 operations. This figure represents a 25% increase in traffic over 1968, 52% over 1967, and 65% over 1966. Also, instrument traffic controlled by the ARAC during the past decade has increased 800% as the operations count for calendar year 1959 was 20,346.

Not only has the traffic count increased but also the physical area which is under the jurisdiction of the ARAC. In 1969 approximately 73 miles of Federal airways and airspace overlying 533 square miles of land area was added. This increase in area was due primarily to the assumption of instrument flight rules (IFR) control responsibility of the Troy, Alabama, municipal airport and associated navigational aids. Increased use of Troy Airport during 1969 was provided for through establishment of a control zone and installation of a VOR, a non-directional radio beacon, an ILS system and a GCA facility. These navigational aids are fully commissioned. Adding to the complexity of the Cairns Control Area was the establishment of six new instrument approach procedures and two new holding pattern airspace areas. The total number of instrument approach procedures in the Cairns Area is now 22, all of which were revised and updated during the year.

Hub Control, which began continuous operation on 14 April, had a total traffic count of 66,178 operations for 1969. Hub Control, a central radar facility, provides increased radar traffic advisory service to aircraft operating under VFR conditions. A modern facility with additional radar and the latest communications equipment is planned and will enable greater expansion of services. Presently, only the Advanced Instrument Division, Department of Rotary Wing Training is being serviced.



CAIRNS AAF, FORT RUCKER, ALABAMA

ASSISTANT CHIEF OF STAFF, G4

ACCOMPLISHMENTS:

Data received from CONARC indicated that the USAAVNS was the largest contributor to the cost reduction program during CY 69. The USAAVNS submitted savings of \$7,865,200 against an assigned goal of \$5,424,600. The next largest contributor was the Signal School, Fort Monmouth, New Jersey, which contributed \$1,580,900 against an assigned goal of \$728,200.

PERSONNEL:

The following military personnel assignments were made:

COL R. D. Kisling, ACoS, G4, effective 28 July.

LTC D. E. Youngpeter, Chief, Services Division, effective 1 September.

LTC J. G. Blissitte, Chief, Supply Division, effective 1 October.

LTC T. I. McMurray, Chief, Family Housing Division, effective 15 December.

SERVICES DIVISION

ACCOMPLISHMENTS:

Responsibility for operation of the diesel fuel station was transferred from Center/School Engineer to Services Division II in February.

On 18 August, the Motor Pool Branch dispatched fifteen 19,000 GVW cargo vehicles, one pickup truck, one station wagon, and 32 people with 86,000 lbs of "C" rations for Hurricane Camille support personnel at Camp Shelby, Mississippi.

Travel arrangements for the Christmas-New Year holiday leave period were made for 2,072 personnel. Increased travel by commercial means during this period resulted in use of 12 aircraft and 22 buses over the number normally required.



MG Delk M. Oden, post commander, cuts an orange and black ribbon across the front of Ft Rucker's new commissary on 29 January, to formally open the \$508,000 building.

Before cutting the ribbon, MG Oden pointed out that both the new commissary, and the old commissary would be open seven days a week for convenience to shoppers.

A total of 3150 line items are stocked within the structure, with inventory assessed at \$664,209.

FAMILY HOUSING DIVISION

ACCOMPLISHMENTS:

The Off-Post Referral Service now has 6,162 rental units listed for rent on a nondiscriminatory basis. This is an increase of 2,162 units from CY 68.

The assignment policy for government quarters was changed from assignments based on rank and date of rank to assignments based on rank and date of application.

Warrant Officers were integrated on waiting lists with officers based on BAQ allowances (i.e., CW-4 with O-4, CW-3 with O-3, CW-2 with O-2, and WO-1 with O-1).

The Family Housing Division received a letter of commendation from Third US Army for maintaining an occupancy rate of 99+% for FY 69.

PURCHASING AND CONTRACTING DIVISION

ACCOMPLISHMENTS:

The P&C Division monitored the following programs and contracts:

Contract DABCO1-69-C0003, Page Aircraft Maintenance, Inc:

Modification increasing availability of UH-1 aircraft was approved by TUSA and executed by contracting officer and contractor. All labor problems and group insurance matters were agreed upon.

Labor-Management negotiations commenced 5 January between Page Aircraft Maintenance, Inc. and Local Lodge 2003, International Association of Machinists. The scheduled date for renewal of the labor contract was 1 February; due to impasses during negotiations, the 1 February deadline was extended to 10 February at which time a strike was to begin. Federal mediators moved the meetings to Washington, D. C., when it appeared that negotiations were stalemated, primarily over the increase in wages demanded by the Union. Settlement was reached by 20 February without a called strike by the Union.

The increase of Allied military training at Fort Stewart required use of two additional stagefields. The contractor was requested to furnish maintenance support on an "as needed" basis at these stagefields.

Negotiations with contractor for exercise of option for FY 70 were completed, approved by TUSA, and executed by contracting officer and contractor assuring contractual aircraft maintenance for FY 70. Originally submitted to TUSA was a modification to change the contract for FY 70 to an incentive fee/award fee type contract. This was disapproved by TUSA. Modification 19, as approved, is a continuance of the incentive fee contract. FY 70 total estimated operational cost, less fee, is \$39,334,623.

Modification 19 extended contract with Page Aircraft Maintenance, Inc. The official Board of Award for Aircraft Maintenance convened 20 November after a Command decision to exercise the final option of the contract, thereby extending it through FY 71.

Contract DABCO1-69-C-0001, Harrison Security Services, Inc:

Contract was modified requiring contractor to provide protective guard service at TAC-X for the period 0800 to 1600 hours on Thursdays and Fridays of the second week of the

tactical training cycle. This requirement had previously been performed by the 1st Aviation Company, but due to training requirements, POI and school support requirements, service could no longer be rendered. As a result of this modification, contract cost was increased by \$732.00 or a new total of \$668,306.70.

Invitations for Bids, covering FY 70 requirements, were opened 14 March. There were five bids ranging in price from \$757,350.00 to \$895,547.40.

Contract with Harrison Security Services, Inc., was completed 30 June.

Contract DABC01-70-C-0023, in the amount of \$757,350.00 (less 2½%-20 days), was awarded to Industrial Maintenance Services, Inc., 18 June for FY 70 requirements. Award was held from 23 April until 18 June pending outcome of protest submitted by Harrison Security Services, Inc. Verbal approval was received from DA 18 June to make award and was confirmed by DA message 913240.

Construction work was accomplished at Knox AHP necessitating the removal of some of the aircraft to Hatch Stagefield. As a result, security coverage of one two-man motorized patrol was required from 1600-0800 hours on weekdays and from 0800-0800 on weekends at Hatch Stagefield.

Contract was modified 1 August to provide protective guard service for the aircraft for the period 1 August through 31 January 1970. The total cost of the contract was increased from \$757,350.00 to \$784,165.26.

Contract DABC01-69-C-0141, Spear Services, Inc:

Contract with Spear Services, Inc., was completed as of 30 June. Contract DABC01-70-C-0003, in the amount of \$728,569.47, was awarded to Southern Gulf, Inc., 2 June for FY 70 requirements. Award was held from 14 March pending decision of Comptroller General on protest filed by Spear Services, Inc. Protest was denied by Comptroller General 29 May.

Contractor, Southern Gulf, Inc., was not performing the services in accordance with the terms of the contract; therefore, a cure letter was written 3 July giving 10 days to correct deficiencies. The contractor failed to provide a safe and adequate refueling/defueling operation in a timely manner within the 10 day period specified above. Contract was terminated for default on 15 July, and contractor was advised that the government intended to reprocur the services and assess any excess costs to Southern Gulf.

Contract DABC01-70-C0041 was negotiated with Spear Service, Inc., 16 July, for the remainder of the fiscal year in the amount of \$902,829.82. Default termination was appealed 6 September.

Contract DABC01-69-C-0292, Honeywell, Inc.

Contract was awarded to Honeywell, Inc., 30 June covering procurement of 222 proximity warning systems, consisting of 222 receiver/transponders, 444 antennas, and 222 pitot static tubes, and certain support equipment and services, consisting of technical training manuals, shop testers, and ground transponder testers. As the results of extensive negotiations, contract was negotiated for \$755,711.00. The contract contains an option for the procurement of as many as 1293 additional systems as well as additional support equipment.

The technical training class was conducted at Fort Rucker 3-5 December.

Contract DABC01-67-C-0173, Ross Aviation, Inc:

Modification 16, effective 28 May, authorized contractor to hire 10 additional instructor pilots to begin MOI 18 June. Instructor pilots were required due to increase in student in-put at Fort Stewart for FY 70. Contract cost increased from \$4,806,927.64 to \$4,809,141.67.

Contract was extended under the option provisions for FY 70 in the amount \$5,410,305.36.

ASSISTANT CHIEF OF STAFF, COMMUNICATIONS-ELECTRONICS

NAVIGATIONAL FACILITIES BRANCH

ACCOMPLISHMENTS:

Installed six additional nondirectional radio beacons in the tactical instrument training area.

Installed four complete GCA Facilities in the basic instrument training area in support of Phase III of the Air Traffic Control Plan.

Devised, fabricated and installed a temporary radar hub control facility to serve as an interim while awaiting additional equipment, building and hard line communications to Cairns, Hanchey, Lowe, Shell, and Knox Army Airfields for permanent hub control.

Installed multi-channel tape recorders at all tactical GCA training sites.

The AN/TPN-8 radar at Rockey Head was exchanged for an AN/TPN-18. The AN/TPN-18 is modified to accept IFF beacon equipment when available.

Navigational facilities, to include ILS, NDB, TVOR, and radars, at Troy Airport, Troy, Alabama, have been checked by the Federal Aviation Agency and certified for joint military and civil use.

Began rehabilitation of the Cairns Army Airfield Control Tower communications system be completed during early part 1970.

Installed a hardline communication circuit from Cairns ARAC to Troy Municipal Airport, Troy, Alabama, for the control of civil and military aircraft during GCA.

The TAC-X radar has been elevated to improve coverage in the surrounding area and particularly at low altitudes.

A tactical radar was installed at Shell AHP.

TELEPHONE OPERATIONS AND MAINTENANCE BRANCH

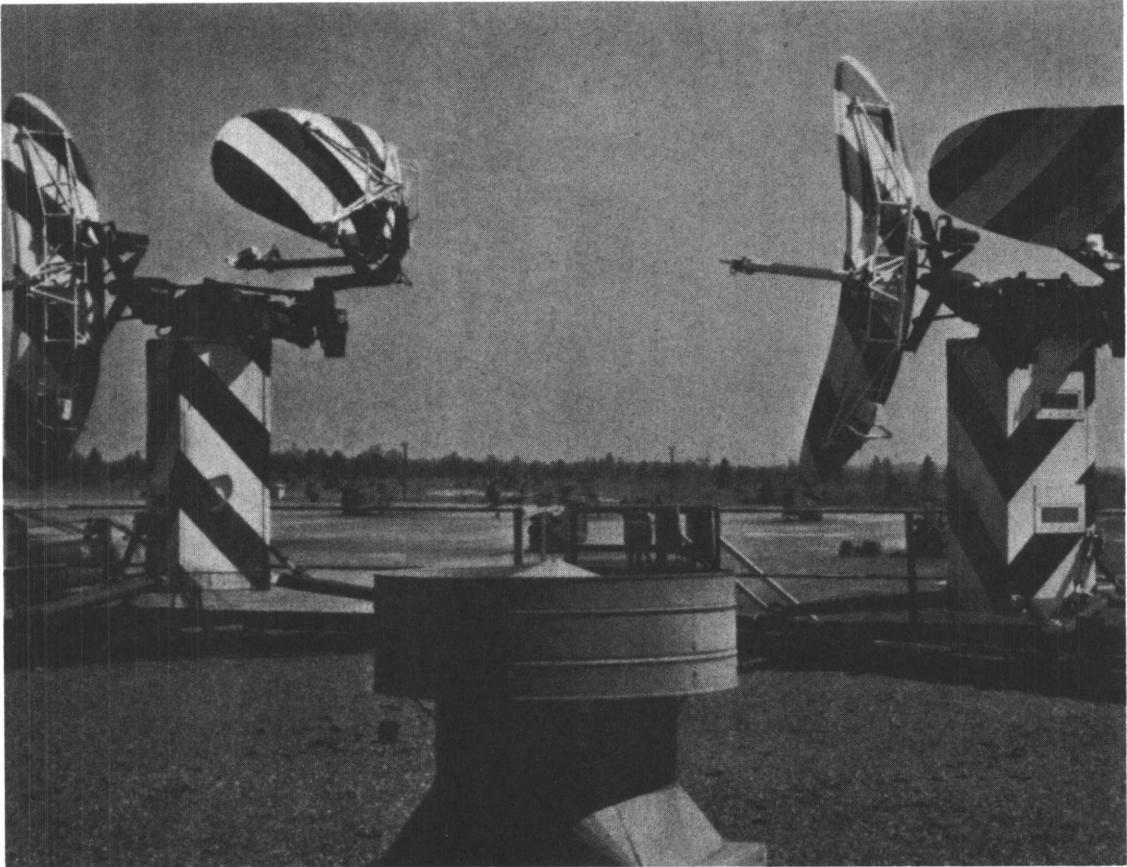
ACCOMPLISHMENTS:

During first quarter calendar year 69 STRATCOM began installation of 1,000 lines addition to the telephone exchange central office. This project is approximately 40 percent completed.

Installed two hardline communications circuits to Troy Municipal Airport, Troy, Alabama; one air traffic control and one weather circuit.

A Class IV Signal Project was approved and funded in the amount of \$16,000 which will provide telephone service to the student dormitories, MCA line item #165, currently under construction. It is anticipated that this project will be completed on 30 Mar 70.

A telephone key system was installed for DDL&P (Prov) consisting of 20 telephones with intercom.



RADAR TRACKING INSTALLATION AT HANCHEY AHP

TELEVISION FACILITIES BRANCH

ACCOMPLISHMENTS:

Rehabilitated weathervision TV distribution systems at Cairns, Hanchey, Lowe and Shell Army Airfields.

Improved quality of weather data received from remote weather observation site. This was accomplished by installing TV stabilizing equipment at remote site.

Improved weathervision system by installing video switching. This resulted in a more versatile weather presentation and also provides a back-up channel capability.

Eliminated eight duplicating MATV head-ends by integrating these eight systems into a higher quality head-end. In this consolidation an additional TV channel and FM channels were added. The aesthetic appearance of the BOQ area was improved by the removal of the eight TV antenna towers atop the BOQ buildings.

COMMUNICATIONS BRANCH

ACCOMPLISHMENTS:

Installation of Remote Console Unit for the EOC was completed 13 Aug 69. This unit will provide communications for the EOC in support of emergency plans. The following radio nets operate on the unit: Fire & Forestry; Crash Rescue; Military; Communications-Electronics Vehicle Dispatch; CEN/SCH Engineer Vehicle Dispatch; Cairns Army Airfield Alert; Military Taxi and Security Guard.

PHOTOGRAPHIC BRANCH

ACCOMPLISHMENTS:

The Center Photo Lab reached a record production of 723,702 negative equivalents during the year 1969. The facility continued to operate without a back-log and served the USAAVNC/S and its tenant activities with all known requirements.

The most outstanding single project completed during the year was the production of 48,000 color slides depicting the "Role of Army Aviation" to be distributed to all Senior ROTC Units throughout the nation. This project was completed within the time frame of 120 days without a sacrifice to normal production and without the need for overtime.

TELECOMMUNICATIONS CENTER

ACCOMPLISHMENTS:

Installation of new improved antenna facilities for MARS utilization consisting of one 80 foot self-supporting tower and one LP-1007, 13 through 30 MHz, antenna to provide improved communications with MARS Stations overseas.

Establishment of COMSEC Account for 83d Eng Bn (Const) to provide the capability for secure field communications.

ASSISTANT CHIEF OF STAFF, COMPTROLLER

ORGANIZATION:

During the periods 17-21 March and 17-21 November, representatives of the Office DCS, Comptroller, Headquarters, Third US Army performed reviews of the Comptroller Office. These visits were made under the Command Surveillance Program. Reports of Visit determined the overall operations of the Comptroller organization to be satisfactory.

On 26 May, Mr. Danny L. Wright, Deputy Comptroller, departed Fort Rucker to attend the June 1969-July 1970 Army Comptrollership School at Syracuse University.

Colonel James V. Preuit, the ACofS, Comptroller, addressed the Kiwanis Club, Troy, Alabama, on 29 April. The topic of the address was "Introduction to Fort Rucker."

On 7-19 July, COL Preuit attended the Army War College Nonresident Course at Carlisle Barracks, Carlisle, Pa. During this time, he completed the First Resident Phase.

On 1 August, the Systems Service Division was reassigned from the Office of the ACofS, Comptroller, to the Management Information Systems Directorate (Prov), and on 1 November, the Data Control Operations Division was reassigned from the Office of the ACofS, Comptroller to the Management Information Systems Directorate (Prov). The reassignment of these two divisions plus the loss of authorized TDA spaces during the year reduced TDA ceilings from 62 military and 228 civilians to 49 military and 170 civilians.

A contract was entered into with Kersting and Associates, Management Consultants in Work Simplification, Dallas, Texas, to conduct a Work Simplification Appreciation Seminar. The approach as advocated by Kersting and Associates was adopted for use by Fort Rucker.

PERSONNEL:

The following personnel changes were effected throughout the various divisions of ACofS, Comptroller during CY 69:

On 21 January, 1LT Randall K. Johnson, was assigned as Asst ADP Coordinator upon his assignment from RVN.

On 29 January, 1LT Wadie D. Gabriel, Jr., Asst ADP Coord, was reassigned to the F&A Division.

On 24 March, LTC Louis D. Kish, was assigned from Dept of Tactics to Office of Secy, USAAVNS for duty with Office of the ACofS, Comptroller and appointed as Special Assistant to the Comptroller.

On 31 March, LTC James H. Cook, Dept Compt-MIS, was reassigned to USA FOCA, Alexandria, Va., with duty station USA Avn Sys Cmd, St Louis, Mo.

On 1 April, LTC Owen A. Koch, Dept Compt-Prog Coord, was reassigned to USA Aeromed Rsch Unit.

On 13 April, 2LT Robert J. Cournoyer, Office of the Installation Accountant, was reassigned to Vietnam with TDY en route to the USAQM School, Fort Lee, Virginia.

On 21 April, 1LT Donald G. Leach, Deputy F&AO, was released from active duty.

On 2 May, 2LT Thomas F. Harvey, Asst F&AO, was reassigned to Fort Belvoir, Va.

On 15 May, 2LT Fred G. Wilson, was reassigned from Fort Belvoir and assigned to Office of Secy, USAAVNS for duty with Office of the ACofS, Comptroller.

On 4 June, 1LT David R. Loesch, Asst F&AO, was reassigned to duty in Vietnam.

On 8 June, 1LT Randall K. Johnson, Asst ADP Coord, was released from active duty.

On 23 June, 2LT John E. Carlson, Jr., was assigned to F&A Div as Asst F&AO.

On 23 June, 2LT Garth D. Gooch, was assigned to F&A Div as Asst F&AO.

On 6 July, 2LT George L. Gruett, was assigned to F&A Div as Deputy F&AO.

On 18 July, LTC James V. Preuit, the ACofS, Comptroller, was promoted to grade of Colonel.

On 3 August, Mr. George H. Broxson, Jr., returned to duty following completion of the Comptrollership School at Syracuse University, New York, and was appointed Acting Deputy Comptroller during the absence of the Deputy Comptroller, Mr. Danny L. Wright, who left to attend the school.

On 5 August, 2LT Robert A. Werner, was assigned to F&A Div as Deputy F&AO.

On 17 August, 1LT Thomas A. Selby, Comptroller Special Projects Officer, was released from active duty.

On 29 August, Mr. George H. Stevens, Chief, Management Engineering Division, retired from civil service.

On 2 September, 1LT James B. Smith, Deputy F&AO, F&A Division, was released from active duty.

On 21 November, 1LT Wadie D. Gabriel, Jr., F&A Div, was released from active duty.

On 15 December, 2LT Robert J. Huber, was assigned to the F&A Division from the Finance Officer Basic Course, US Army Finance School, Ft Benjamin Harrison, Ind.

PROGRESS/BUDGET DIVISION

ACCOMPLISHMENTS:

Monitorship of Host-Tenant Support Agreements was transferred from Office, ACofS, Comptroller (Prog/Budget Div), to Office ACofS, G4 (Log Mgt Div), on 25 March (ref: CONARC Reg 1-9, 15 Nov 68). Five separate class II tenant activities involved were USAAVNHRU, USAARL, USACDCAVNA, USABAAR, AND USAAVNTBD.

Continuous efforts were expended throughout FY 69 to obtain necessary Annual Funding Program for minimum essential operations. Additional O&MA AFP of \$23,807,000 was received, effective 20 March. This increase resulted from reaction by higher headquarters to the 31 Oct 68 Budget Execution Review (BER) as updated or verified by the Feb 69 Financial Management Report (FMR). The Annual Funding Program increase represents 24% of total annual O&MA requirement (\$97,972,600) as stated in the 28 February FMR. Based on the March FMR and receipt of additional AFP in March, a remaining unfinanced requirement of \$2,126,100 existed as of 31 March.

Cost and other statistical data were compiled by the Program/Budget Division and forwarded to HQ, CONARC, in February. Purpose of the data was for the Comptroller, CONARC to use in a comprehensive study to develop a cost per course, per student, for USAAVNS courses. This is the first such study to be undertaken by higher headquarters for publication. Results of the study were received from CONARC by letter dated 10 September.

The P/B Division conducted the following Program Change Proposals (PCP) during CY 69:

<u>TITLE</u>	<u>ESTIMATED OMA FUND RQMTS</u> <u>(THOUSANDS OF DOLLARS)</u>	
	<u>FY 70</u>	<u>FY 71</u>
Officer Aviator Acft Maint Management Course	6.6	8.0
Operator Standard Rating	683.3	1,985.0
OH-58 Advanced Resident Tng Plan	245.7	NA
Firefighter Course (5LM20)	97.1	100.2
Graduate Flying Training	NA	18,929.0
Skill Development Base Program:		
Single Shift	673.9	462.1
Double Shift	270.4	384.5
Advanced Level NCO Course (Not applicable to a particular FY: \$302.6)	-----	-----
RW and FW Pilot Tng (Decrease)	-482.3	NA
OH-58 Helicopter Repair (67V2T)	308.1	NA
M-16 POR Training (not applicable to a FY \$36.5)		
Cost Studies on ROBAA & ROBAM	(Classified)	

An Individual Training Cost Report, FY 69 (PART III only) was compiled and forwarded to CONARC 12 November. CONARC uses data furnished to arrive at an estimated cost per student per course for USAAVNS courses.

The FY 70 Budget Execution Review (BER) was conducted and was submitted to TUSA in November. The BER was based on an aviation training mission of 7,036 initial entry aviator outputs for FY 70. The BER also considered the impact of directed actions to output 5,100 active Army aviators in FY 71. The review resulted in an O&MA hard core fund requirement of \$106,095,000. Funds available were \$89,759,500 (including civilian pay raises of \$2,000,800) leaving a deficit of \$16,335,500.

The FY 71 Command Budget Estimate in the amount of \$99,846,200, plus \$7,828,400 for VNAF Training under the O&MA appropriation and \$1,441,700 for the FHMA appropriation was submitted to TUSA in June. Some of the above PCP required a number of revisions because of changes in factors that had an impact on fund requirements.

The O&MA Annual Funding Program for FY 69 was \$94,803,428, obligations were \$94,802,440, thus achieving a 99.998% fund utilization. Obligations of \$1,052,831 against Family Housing Operations and Maintenance Funds of \$1,052,832 achieved a utilization of 100%.

A comprehensive review of the FY 70 Command Operating Budget (COB) was conducted in July 1969. The July Financial Management Report was prepared and forwarded to HQ, TUSA reflecting financial status resulting from the July review as follows:

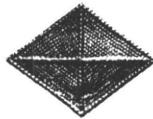
Total hard-core fund requirements:	\$112,760,800
Fund availability:	95,659,800
Unfinanced requirements:	17,101,000

Army Stock Fund Reapportionment Request was submitted in July reflecting a financed FY 70 gross sales projection of \$57,790,000, compared to \$55,120,429 actual gross sales for FY 69.

Mechanization of the Installation Operating Program/Budget System was directed in August, to be effective 1 October. This system is based on the establishment of a master card deck reflecting workload, personnel, and expense data, updated as necessary. The master card file will be used to prepare Installation Operating Program, Review and Analysis Reports, Budget Execution Review, and other program/budget reports.

Guidance was received which directed that training of VNAF personnel previously programmed at the US Army Aviation School would be conducted at the US Army Aviation School Element. This represents a reduction in reimbursable fund requirements of \$3,908,700 for FY 70.

A review of first quarter FY 70 overtime and holiday pay limitation revealed that an additional amount of \$24,300 was required to supplement the initial limitation of \$44,000. Advice was received that no additional limitation was available for first quarter and no increase in total FY 70 limitation could be expected. Authority to transfer \$20,000 from second quarter to first quarter was granted. Approving authorities were advised to reduce overtime and holiday pay costs to the bare minimum to meet emergencies and sustain the training mission, with particular emphasis on the use of compensatory time in lieu of paid overtime.



FINANCE AND ACCOUNTING DIVISION

ACCOMPLISHMENTS:

The enlisted personnel strength was brought up to almost normal, with about 80% being on-the-job trainees. In order to help train these EM, subcourses were ordered from the Finance School. The material was received during December and plans are under way to begin the classes in the latter part of January 1970. It is felt that these subcourses will give on-the-job trainees the necessary school background to finance clerks at this installation.

It is noted that the workload has increased almost 4,500 records in the last three months of this calendar year. This makes an all-time high of 14,500 records now being maintained by the F&A Office, without an increase in trained personnel and a very small amount of overtime.

Fort Rucker supported the 143d Transportation Brigade, training at Point St Joe, Florida in May. The Class B agent at Camp Shelby, Mississippi, supported the summer training units and the University of Southern Mississippi early in June. The Class B agent at Camp Shelby also has the responsibility for the training in Mobile, Alabama, being conducted on the training ship "RESOLVE." The Class B Agent Office consists of one officer, three enlisted men from Fort Rucker F&AO, two enlisted men from Fort Campbell, and ten youth opportunity personnel.

The USGAO audited the Finance and Accounting Officer's October 1968 Voucher Account at the US Army Finance Center. A report of deficiencies dated 21 August was received, and the required command reply as to corrective action taken was dispatched on 22 September.

The annual summer training cycle for Reserve and National Guard Units was completed on 29 August at University of Southern Mississippi, Hattiesburg, Miss; Camp Shelby, Miss; Point St. Joe, Fla; Pensacola, Fla; and the Training Ship "Resolve", Mobile, Alabama. Each was supported by Fort Rucker within existing resources of the F&AO, Fort Rucker, Alabama. A total of 41,500 Reserve and National Guardsmen was provided support by this organization.

Mr. Oscar P. Drake, State Director, Savings Bond Division of the US Treasury Department, Birmingham, Alabama, presented the Minuteman Flag with one gold and one white star to Major General Delk M. Oden on 24 September. The award represents participation in the payroll savings bond program in excess of 90 percent each month for 84 consecutive months. The award was earned as of 31 May.

INTERNAL REVIEW/AUDITING DIVISION

ACCOMPLISHMENTS:

A USGAO survey of TDY assignment of military personnel at Fort Rucker was initiated in October 1968 and was completed 20 February 1969. USGAO presented seven possible alternatives to the present policy of paying per diem to TDY officers in training at Fort Rucker. USGAO contends that these alternatives would save the government from .7 to 3.1 million dollars. Implementation of these alternatives would require approval and/or funding by higher headquarters. The results of this survey were reported to higher headquarters.

Representatives from DA and CONARC visited this installation on 17 and 18 June to review PAMI ADPE management techniques as a followup to USAAA Audit Report No. SO 69-7. The ACofS, Maintenance was the project officer for the visit and briefed the team on various subjects in which they were interested. An exit conference was held with the Chief of Staff on 18 June.

On 29 and 30 September, the USGAO reviewed the management of Huey and Cobra helicopters and obtained background information for use in developing a DOD-wide audit program. No report was issued on this visit.

The USGAO initiated a regular audit of civilian payroll records on 20 September. This audit was completed 30 October and a letter report was received 18 December. Several timekeeping deficiencies and one erroneous payment was reported. A question concerning retention pay for four employees was later resolved by USGAO.

On 5 December, the USAAA concluded a study at this installation of alternative systems for auditing open messes. The study included survey work relating to activities having staff operational responsibility relative to Officers' and NCO Messes. No report was made.

PROGRESS REVIEW AND ANALYSIS DIVISION

ACCOMPLISHMENTS:

During the period 20 January through 31 March, the US Army Audit Agency (USAAA) performed work at Fort Rucker on their Army-wide audit to determine whether an adequate operational-readiness position of the CH-47 aircraft was maintained within available resources. USAAA's report, received 29 May, contained no significant adverse conditions and did not require a formal reply. Operating officials initiated corrective action on four minor deficiencies that were reported.

A team of representatives from DA, CONARC, and TUSA visited Fort Rucker on 16 and 17 June to gather information relating to direct operating cost of the CH-47 and UH-1 helicopter systems. A conference exploring acquired information was held with the Chief of Staff on 17 June.

Comparative cost analyses were initiated in June to determine whether it would be more economical to accomplish messhall KP/Cook functions in-house or by contracts. Two analyses are being made; one for KP's and cooks in the Student Aviator Battalion mess and another for KP's only in all other messhalls including TOE and TDA messes. These analyses will be completed in January 1970 and presented to the USAAA for audit.

At the direction of CONARC, two cost analyses (packing and crating of household goods and aircraft maintenance) not requiring audits by the USAAA were completed. Performance by contract was determined to be more economical.

Cost analyses of six service-type contracts that will require audits by the USAAA were completed in December. These analyses were directed by DA and included Custodial, Guard Services, School Bus, Aircraft Refueling, Grass Mowing, and Flight Training contracts. Cost analyses were conducted in accordance with AR 235-5 to determine if these services could be performed more economically "in-house." The analyses determined that performance by contract was more economical. Arrangements were made for the USAAA to commence their audits of these analyses on 5 January 1970.

A DA message was received 1 December announcing a USGAO pilot survey of bachelor enlisted men's housing to begin at Fort Rucker on/or about 1 March 1970.

MANAGEMENT ENGINEERING DIVISION

ACCOMPLISHMENTS:

Mr. A. Fred Kersting, of Kersting and Associates, Management Consultants in Work Simplification, Dallas, Texas, conducted a 5-day Work Simplification Conference.

A comprehensive management analysis of paperwork flows at Fort Rucker was completed and recommendations were approved by the Chief of Staff.

Director of Instruction's Management Improvement Project, DOI-1, was nominated for and received the Commanding General's Award and the Army Commander's Award for last half FY 69.

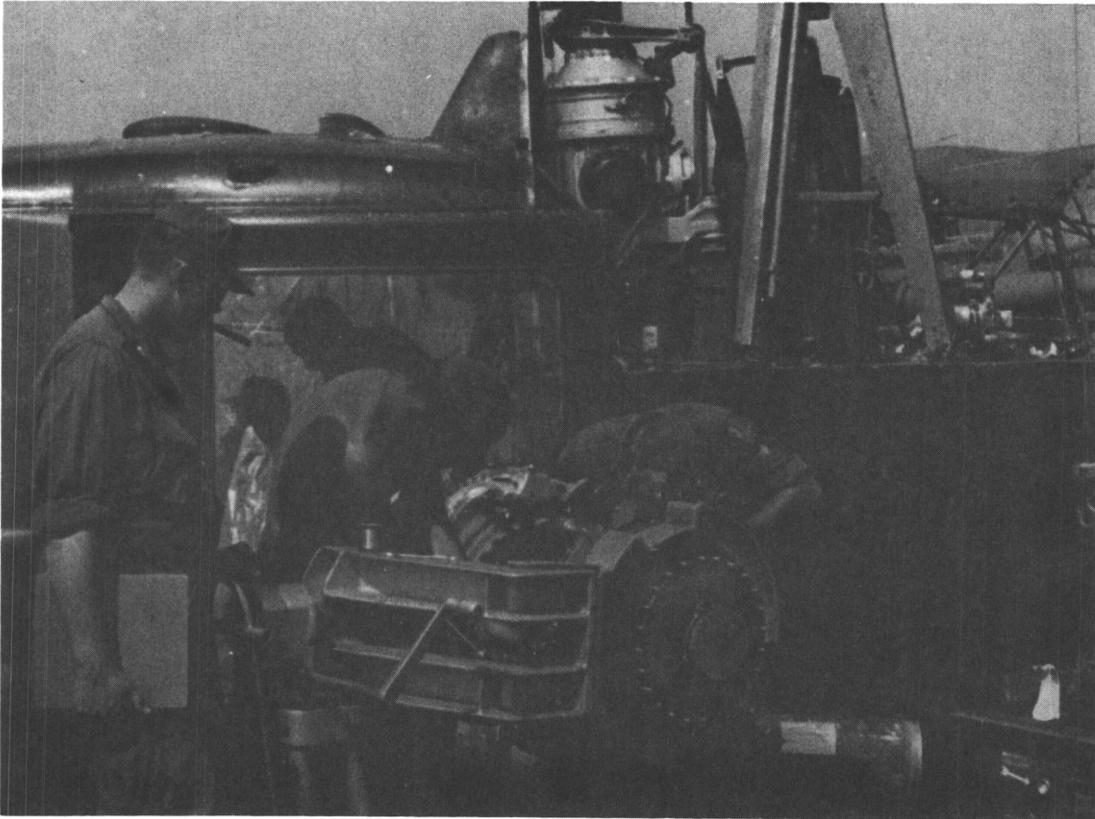
A chapter of the Society for the Advancement of Management (SAM) in Southeast Alabama was initiated through efforts of management personnel.

Fort Rucker received the Third US Army Commanding General's Award for Outstanding Management Improvement.

Management studies were completed in the Commissary; USAAVNC Special Troops; ACofS, Maintenance; AG (including Center/School Personnel); ACofS, G3; TUSA Training Aids Center; and Paperwork Flows and Distribution System of the Center and School.

Under the direction of MED, the Organization and Functions Manual (USAAVNC Regulation 10-1) underwent five major changes during the year. The changes included creation of a Director, Management Information System; transfer of the Safety Division and Aircraft Accident Investigation Board to the ACofS, G3; deletion of the Office of Deputy to the Commanding General; separation of Office of the Deputy Commander/Center Chief of Staff; and the consolidation of Office-Center Surgeon, Office-Dental Surgeon, and Lyster Army Hospital into a Medical Department Activities (MEDDAC).

ASSISTANT CHIEF OF STAFF, MAINTENANCE



Helicopter mechanics pulling maintenance on a UH-1 in RVN

ORGANIZATION:

In January, Aircraft Maintenance Support personnel moved from the old maintenance shops to new facilities adjacent to the Aircraft Quality Assurance Division.

The TIMS equipment was installed on all CH-47 aircraft in January.

The project to equip all UH-1 helicopters with the heavy wire drive servos was completed in April.

In June, a permanent AVSCOM Supply Technical Representative was assigned to Fort Rucker. Previous supply AVSCOM technical representatives were assigned on a temporary basis.

From July to November, 248 UH-1 Aircraft were modified in accordance with MWO 55-1500-206-20/1 (improved hydraulic filtering system). This modification completed requirements to permit servo-off operations.

Transponder installation was completed on all TH-13T aircraft in September. This improved radar service and enhances instrument training.

Two UH-1H aircraft were received from Hunter AAF and five suppression systems installed for a two month testing period.

All OH-6 aircraft engines were modified in accordance with MWO 55-2840-321-30/1 (replacement of torque meter shaft). This improved OH-58 engine reliability and was completed within 30 days.

A modification program was initiated in August to install screen kits on the entire UH-1 fleet in accordance with MWO 55-1500-206-20/1 (Improved Hydraulic Filtering System). The filter modification kits, designed as a particle separator, were installed with a minimum effect on aircraft availability.

Application of the particle separator on UH-1B/D aircraft (MWO 55-1520-211-30/5 and MWO 55-1520-210-30/17) continued through December. The operation had temporarily been held up pending receipt of carrier filter kits. As of 31 December, 89 UH-1B's and 39 UH-1D's were completed.

TUSA designated Fort Rucker as the Third Army Cannibalization Point for MF 1500 Firetrucks and placed 11 vehicles on post for use as cannibalization assets, thus relieving the deadline rate. Three of these vehicles were expended by December. At this usage rate, present assets are predicted to last another two years.

The engine test stand was modified to accept the Lycoming T-55L-11 engine.



Preparing a downed UH-1 for airlift to maintenance area in RVN

Page Aircraft Maintenance, Inc., (PAMI) engineering designed an abrasive skid shoe and is presently manufacturing and installing them on the OH-58 fleet at Lowe Army Heliport. US Army Aviation Systems Command (AAVSCOM) has sent notification that the item will not be procured for Army-wide use.

PAMI continues to test and apply the latest nondestructive inspection techniques and may well be leading the aviation industry in this area. This is with the concurrence of AAVSCOM.

The aging UH-1A model fleet presented two significant problems which were solved without seriously affecting student training. Numerous incidents of stabilizer bars cracking caused a one-time fleet inspection and tighter quality control measures during manufacture. Premature removal of UH-1A main rotor hubs, due to tension torsion strap laminates cracking, resulted in a time before overhaul decrease from 600 hours to 400 hours.

One hundred thirty-eight TH-13T's were programmed for transfer to Fort Rucker from the Hunter-Stewart Complex. Forty-four were received by the end of December. The remainder to follow in the early months of 1970.

Installation of Proximity Warning Devices (PWD) was begun during the end of December. Slippage in the arrival of PWD's should be considered when reevaluating system appraisal date of 1 March 1970.

The catastrophic failure of an aft rotor blade of a CH-47 helicopter precipitated an intensive engineering investigation by the military and industry. While several engineering change proposals are being considered, the blades are being subjected to frequent (25 hour) and thorough inspection.

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

<u>AIRCRAFT</u>	<u>ASSIGNED 31 DEC 68</u>	<u>ASSIGNED 31 DEC 69</u>	<u>CHANGE</u>
UH-1	356	362	+ 6
CH-47	47	46	- 1
TH-13T	260	286	+26
OH-6	17	12	- 5
CH-54	5	5	0
OH-13	23	27	+ 4
OH-58	0	7	+ 7
CH-37	3	3	0
O-1	43	58	+15
T-41	23	22	- 1
OV-1	16	22	+ 6
T-42	62	61	- 1
U-21	8	7	- 1
U-6	18	14	- 4
U-8	3	5	+ 2
C-47	2	2	0
CH-34	11	4	- 7



OFFICE OF CENTER/SCHOOL ENGINEER

ORGANIZATION:

The Fort Rucker Fire Department conducted 5,293 on-post fire inspections in CY 69. Fire inspections were also conducted in 76 trailer courts in neighboring communities. There were four cases where the Fort Rucker Fire Department responded to calls to assist local communities in extinguishing fires.

During CY 69 there were 10,270 personnel who attended 110 classes and demonstrations emphasizing what action to take in the event of fire, including prevention measures and use of the fire extinguishers. Major emphasis in fire prevention was placed during spring cleanup week, 7-12 April and National Fire Prevention Week, 5-11 October.

There was a total of \$10,391.94 of fire loss, of which six were reportable to higher headquarters.

ACCOMPLISHMENTS:

Construction of five major facilities began in 1969. On 10 March, construction began on the Student Dormitory Complex with completion expected 6 August 1970. On 21 March, construction began on the Engine Runup Facility with completion expected 21 March 1970. On 14 April, construction began on the Officers' Open Mess Swimming Pool and Bathhouse with completion expected 13 March 1970. On 19 June, construction began on the Rotary Wing Stagefield (Louisville) with completion expected 25 February 1970. On 25 June, construction began on conversion of Knox Field to a Base Field with completion expected 11 May 1970.

During the period 1 January through 31 December, \$3,180,568 of new construction was completed. On 15 January, the Commissary was completed at a cost of \$501,793. On 21 March, the 120 Man High Rise BOQ was completed at a cost of \$1,423,572. On 13 June, the Post Exchange was completed at a cost of \$463,996. On 27 June, the Theater was completed at a cost of \$453,822. On 20 June, expansion of the WOC Lounge was completed at a cost of \$25,894. On 29 July, the Aircraft Landing Pads at Tac X and Runkle Tac Site were completed at a cost of \$233,676. On 4 September, the addition to the NCO Club was completed at a cost of \$77,815.



STAFF JUDGE ADVOCATE

ACCOMPLISHMENTS:

On 23-24 January, an Income Tax Seminar was sponsored by SJA. The seminar was conducted by representatives of the Internal Revenue Service and the Alabama Department of Revenue. A total of 50 representatives of units and activities at Fort Rucker attended.

The annual Law Day Luncheon was held at the Fort Rucker Officers Open Mess on 1 May. The luncheon was attended by approximately 50 military and civilian invitees which included local judges, prosecutors and presidents of local bar associations. COL M. H. Parson, Assistant Commandant of the US Army Aviation School, in the absence of the Commanding General, delivered a speech on the "Rights of the Majority."

CPT Vincent Glorioso attended a special course of instruction for Military Judges at the Judge Advocate Generals school in Charlottesville, Virginia.

Fort Rucker remains significantly below the Third Army and Army-wide rates for all types of court-martials.



OFFICE OF THE INSPECTOR GENERAL

MISSION:

The Inspector General inquires into and reports upon matters which pertain to the accomplishment of assigned missions, and the state of discipline, efficiency, economy, and morale of the U. S. Army Aviation Center, and to perform such other duties as may be prescribed by the Commanding General, U. S. Army Aviation Center, or as may be required by law.

ORGANIZATION:

- a. During the year, 33 Annual General Inspections were conducted by this office.
- b. Fort Rucker received a CONARC General Inspection during March and a Third U. S. Army General Inspection during June.

Requests for Assistance/Complaints:

A total of 4,511 complaints and/or requests for assistance were received and resolved during the year. This was a substantial increase over the 1968 figures.

PERSONNEL:

During Calendar Year 1969, a complete turnover of officer personnel assigned to the Office of the Inspector General occurred. Major Bobby A. Ramsey was assigned as Assistant Inspector General on 17 February replacing Major Issac Jones who departed on PCS in February. LTC Richard B. Schaefer, the Center Inspector General, was killed in an automobile accident while on leave on 12 June. LTC Neal C. Petree, Jr., was assigned as Center Inspector General on 23 June. One of the two Assistant Inspector General spaces authorized was deleted by ACofS, G1 because of reduction of personnel authorization for Fort Rucker. The Investigator (Steno), Mrs. Easter Cantrell, resigned effective in August. Since Mrs. Cantrell handled all nonappropriated fund matters within the Inspector General Office and conducted inspections of unit funds, the loss of this employee, who had worked in this office for 14 years, was keenly felt. This vacancy was filled by Mrs. Shirley Brackin, who transferred from the Department of Tactics.

MANAGEMENT INFORMATION SYSTEMS DIRECTORATE
(PROVISIONAL)

BRIEF ORGANIZATIONAL HISTORY:

The MISD was established as a provisional special staff activity on 21 July, by combining the Data Systems Division, Directorate of Instruction, USAAVNS, and the Systems Service Division, ACofS, Comptroller, USAAVNC/S and by adding the Data Control Operations Division, ACofS, Comptroller, USAAVNC/S. The MISD is responsible for all ADP planning, development and operation at the USAAVNC/S. The following represents subsequent events which preceded HQ USAAVNC General Order 53 in designating MISD as an activity.

On 29 May, a Management Information Systems Study Group was formed to devise an organization to centralize planning and operation in the development of management information systems at USAAVNC/S and USAAVNSE.

On 24 June, LTC John Scoggins, Chief of Management Information Systems Study Group, submitted a program for developing the MISD which carefully outlined both mission and functional conditions.

On 18 July, LTC Scoggins briefed MG Delk Oden, Fort Rucker Commanding General, on the proposed MISD organization and received the Commanding General's approval to proceed with the plan.

On 22 July, the final plan for MISD was submitted by LTC Scoggins for approval and signature by the Chief of Staff.

On 22 July, United States Army Aviation Center General Order No. 53, established the Management Information Systems Directorate as a provisional special staff activity.

PUBLIC AFFAIRS OFFICE

ORGANIZATION:

As part of the Community Relations Program, the 1st Annual Leaseholders picnic was held 2 August, with approximately 400 people in attendance, including some 300 leaseholders, 75 military personnel and several local community mayors and one U.S. Congressman, the Honorable George W. Andrews (D-Ala). The purpose of the picnic was to bring together the families and friends of those people who lease land to Fort Rucker for use as training sites, helicopter stagefields and landing strips. Many of the people lease their land for the minimal contract requirement of \$1 per year. Activities included demonstrations of sky diving, helicopter landings and water skiing.

In August the post furnished men, supplies and equipment to aid Hurricane Camille victims. This office covered the participation and PAO members made three trips to the area.

Bob D. Billingsley replaced Herbert A. Kassner as Deputy Public Affairs Officer on 17 August.

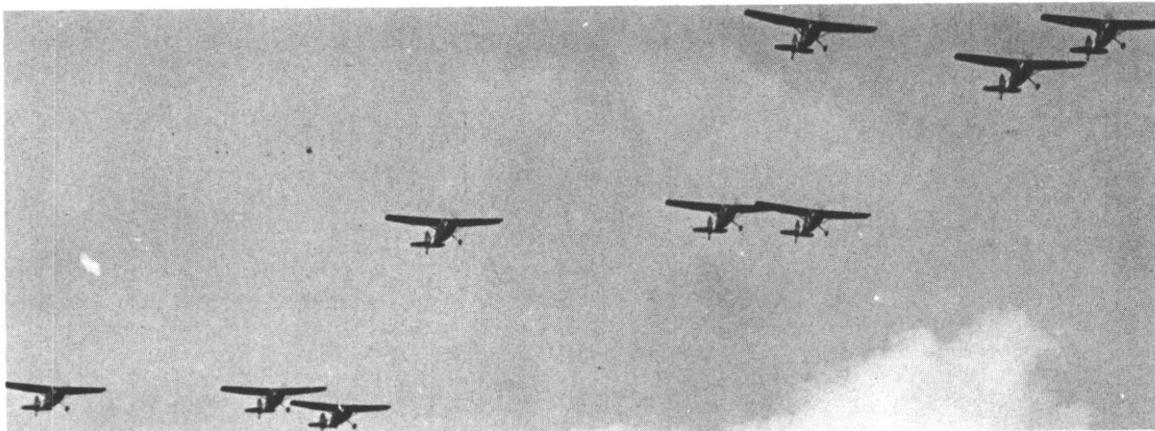
LTC R. Joe Rogers replaced MAJ William F. Gabella as Public Affairs Officer in August.

During 1969 the Speakers Bureau coordinated and furnished military speakers to 91 civic groups in the local area, with a total audience of over 6,000. These speakers discussed a variety of military subjects: Vietnam, ROTC, Fort Rucker, Army Aviation, etc.

Special edition of the Dothan Eagle on 28 October marked the observance of 14th anniversary of Fort Rucker as a permanent military installation.

NBC-TV Huntley-Brinkley team filmed a feature around pilot training for RVN students.

Jim Lucas, Scripts-Howard publications, visited the post on 1 December, to gather information for a feature story on pilot training for RVN students. Story was published on 8 December.



CHAPTER 2

U.S. ARMY AVIATION SCHOOL



DEPARTMENT OF ROTARY WING TRAINING

MISSION:

DRWT's primary mission is to provide flight and simulated flight instruction for qualification/transition and instrument training in rotary wing aircraft.

ORGANIZATION:

During 1969, the department instituted an Automatic Data Processing Program which was in full operation by the end of the year. An IBM card punch machine and card sorter is used to expedite selection of assigned personnel for departmental requirements.

PERSONNEL:

DRWT experienced a personnel turnover rate of 74% during the year.

Authorized strength for the department is as follows: Officers, 393; Warrant Officer, 304; Enlisted men, 218; and Civilian, 183 for a total of 1098 assigned personnel.

ACCOMPLISHMENTS:

A total of 113 decorations which were initiated by DRWT were approved. Included were three Legions of Merit; one Distinguished Flying Cross; 10 Meritorious Service Medals; and 94 Army Commendation Medals, including 22 with one oak leaf cluster, four with two and one with four.

Civilian awards included 42 for outstanding performance, and three for sustained superior performance. There were 41 quality step increases and one \$85 award for a suggestion that was responsible for an annual savings of \$1,667.10.

The following represents a monthly breakdown of special missions performed by DRWT during CY 1969:

Jan: One CH-47 provided orientation flight for 38 students from Florida College.

Mar: One OH-6, one CH-47, one UH-1D provided for static display at Maxwell AFB, Alabama; one OH-6, one UH-1 provided for static display at Ocala, Florida; one OH-6, one UH-1, one CH-47 provided for static display at Maxwell AFB, Alabama; one CH-47 provided orientation flight for Florida State ROTC Cadets.

Apr: One CH-47 provided local area orientation flight for the Army Club from Pensacola, Florida; one UH-1D provided for Secretary of Defense on his visit to McDill, AFB, Florida.

May: One OH-6 and 5 UH-1's provided for annual Armor Association Meeting at Fort Knox, Kentucky; one UH-1 provided for static display at Maxwell AFB, Alabama, in support of Armed Forces Day activities; 8 CH-47's, 2 CH-34's, one CH-54 provided demonstration in support of Fort Rucker's Armed Forces Day activities.

June: One OH-6, one CH-47 provided for static display at Albany NAS, Georgia; 2 CH-47's provided to transport an Army bank from Fort Benning to Fort Rucker and return; 14 UH-1's, 2 OH-6's, 3 CH-47's and one CH-54 provided demonstration for United States Military Academy class at Fort Benning, Georgia.

July: One OH-6, one CH-47 provided for 4th of July activities at Memphis NAS; one TH-13T, one UH-1, one CH-47, and one CH-54 provided for Fort Rucker 4th of July activities; one OH-6, one CH-47 provided for static display at Montgomery, Alabama, in support of 4th of July activities; one TH-13T, one OH-6, one UH-1, and one CH-47 provided for static display at Dothan, Alabama, one OH-6, one UH-1 and one CH-47 for static display at Maxwell AFB, Montgomery.

Aug: One TH-13T, one OH-6, one OH-58, one UH-1 and one CH-47 provided for static display at Lake Tholocco, Fort Rucker, Alabama; one UH-1D provided orientation rides for Civil Air Patrolmen at Ruscaloosa, Alabama; one UH-1 provided for MG Gettys at Eglin AFB, Florida; one OH-58, one CH-47 provided for static display at Metropolitan Airport, Nashville, Tennessee.

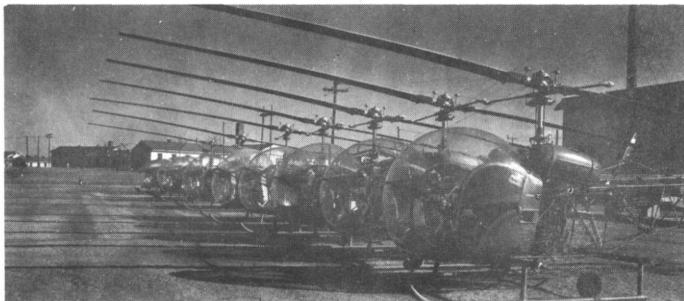
Sept: One UH-1, one CH-47 provided for static display at Defuniak Springs Airport, DeFuniak Springs, Florida, in support of the Northwest Florida Air Fair; one CH-47 provided to support movie crew making an Army Training Film at Fort Benning, Georgia; 2 CH-47's provided to transport students, from Air War College, Maxwell AFB, Montgomery, Alabama, on an orientation tour of Fort Rucker; 2 OH-58's provided for demonstration at Hunter AAF, Georgia; one UH-1D provided to transport VIP's from England, on an orientation tour of Fort Rucker; one OH-6 provided to transport Commander Craig, Joint Warfare Establishment, on an orientation tour of Fort Rucker; one UH-1D provided to transport VIP to Eglin AFB and return to Fort Rucker; one CH-47 sent to Fort Bragg, North Carolina, in support of Operation "Brass Strike 5" conducted by the 82d Avn Div.

Oct: One CH-47 participated in Annual Civil Air Patrol search and rescue operation in the vicinity of Craig AFB, Alabama; one CH-54 provided for static display in support of the 53d Avn Bn organization day; 3 OH-58's, 3 UH-1's, 3 CH-47's and one CH-54 performed flyby over Dothan, Alabama, in support of National Peanut Festival Parade.

Nov: One CH-47 provided to support the presidential flight detachment at Homestead AFB, Florida; one CH-47 provided to support the presidential flight detachment at Patrick AFB, Florida; one UH-1D provided to transport Naval personnel on local area orientation; one UH-1D provided to support visit to Fort Rucker of BG Reid, Chief of Staff, TUSA; one CH-47 provided to support the presidential flight detachment at Homestead AFB, Florida.

Dec: One OH-6, one CH-47, one UH-1D provided for static display at Maxwell AFB, Alabama; 2 CH-47's provided to support presidential flight detachment at Fort Smith, Arkansas.

In addition to the above special missions, the Department of Rotary Wing provided aircraft and crews to Gulfport, Mississippi, and Mobile, Alabama, in support of recovery operations in aftermath of Hurricane Camille. This operation lasted from 20 August-13 September 1969. The number of aircraft used in the operation varied but as many as 4 OH-6's and 5 UH-1D's were at Gulfport at one time and 2 UH-1D's were at Mobile.



OPERATIONS DIVISION

ACCOMPLISHMENTS:

In 1969, a total of 4,283 basic entry students graduated and received the wings of an Army aviator, 1,664 advanced qualifications and transitions were given and 490 aviators graduated from methods of instruction training. This is a total of 6,434 students graduating from Department of Rotary Wing Training courses. In accomplishing this training 451,365 flight hours were flown. In addition, synthetic trainers were utilized for a total of 109,076 hours.

An FGS (Flight Grading System) test was commenced in November 1968 and completed during February 1969. The test was used to grade all students in two initial entry classes in the Basic Instrument and Contact stages and four classes in the Advanced Instrument stage. Approximately four hundred students and two hundred instructors/check pilots participated. The test was designated to test "grading by exception" utilizing both trial concepts: S, U and S, M, U. It was concluded that the FGS did not accurately document and discriminate student and IP performance. It was recommended that the grade characters of A, B, C, and U or a like system be used at all three flight training installations and that the AFTES (Army Flight Training Evaluation System) as tested by this Department and approved by Department of the Army in 1968 be implemented. In November, a revised USAAVNC Regulation 350-16 (the Uniform Flight Grading System) was put into effect. This regulation was revised for the purpose of bringing more standardization to the flight line grading of students thus improving the training analysis accomplished by this Branch. Due to the revision, the Department Grade Book SOP is presently being rewritten.

Procedures were developed and initiated to monitor the performance characteristics of students in the new "Standard Rating" program. Special flight grading procedures were developed so that the students would not be unduly penalized for the extra requirements and would still be in competition with the rest of their class. The program is being continually monitored as an assistance to and in preparation for the implementation of the Standard Ticket program for all initial entry students.

A briefing was conducted at the request of the Flight Surgeon to all flight surgeons at Fort Rucker. This briefing was for the purpose of explaining the student performance prediction system.

Open files are being maintained on 1,511 students and 1,185 instructors/check pilots for the purpose of evaluating student/instructor performance. A detailed study and prediction of student performance is being performed on 160 weak or failing students with appropriate recommendations for the Department Director and Division Commanders. In November, a study of Self-Initiated Eliminations in initial entry classes was started. This study is being made in an attempt to isolate, for correction, those factors causing self eliminations which are directly related to the training received.

During the year, Department of Rotary Wing Training had a total of 22 accidents with 3 fatalities, for a rate of 4.82 accidents per 100,000 flight hours.

During the CY 69, the Department of Rotary Wing Training was presented with The Third U.S. Army Commanding General's Award, for disciplined, reliable and efficient flight operations for Fiscal Year of 1969.

CY 69 was a busy and successful year for Department of Rotary Wing Training Plans Branch. Coordination of new training facilities such as Troy Municipal Airport and Louisville Stagefield, expansion and improvement of facilities at Knox Heliport and the elimination of a ditch formed by erosion at Hunt Stagefield have resulted in safer and more efficient operations.

The SFTS (Synthetic Flight Training System) project is progressing with initial installation scheduled for August, 1970, and full operation planned for October, 1970. 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.

Plans Branch organized numerous social and service activities, such as the Department of Rotary Wing Training's contribution to the Fort Rucker Elementary School Halloween party. The Department sponsored five games which added greatly to the enjoyment of the children.

A major in-depth safety survey was initiated during the last quarter of the year and has already resulted in the elimination and reduction of many potentially hazardous conditions. Surveillance ranged from policy and procedure review to building and confined area inspections.

The following is a basic list of VIP's who received DRWT Briefings during the year, all conducted by the Plans Branch:

MG Douglas Vincent - Chief, Joint Services, Australia.

BG D. J. Tabor - Cmdr, British Army Staff, British Embassy, Washington, D. C.

MAJ G. B. Bartley - Canadian Liaison Officer, Ft Rucker, Alabama.

MAJ Hajine Sentoku - Japanese Self Defense Forces, Japan.

COL Yenane Yegazu - Chief, Ethiopian Army Aviation.

MAJ N. Dagan - Israel.

Dr. Karl Grebert - German Central Aviation Psychology Institute.

BG Negga Teghegn - Imperial Ethiopian Army, Ass't Chief of Staff G3.

BG Wolfgang Kiennert - General for Force Development of the German Armed Forces.

BG Alfred Ritz - Director of Infantry Branch of the German Armed Forces.

MG Mahn - President Aviation Club, Chilean Army.

BG Danby - Canadian Attache.

MG Szu-Tu - Department Chief of Staff, Chinese Air Force Headquarters.

BG Bates, Obe - Military Attache, Australia.

COL Stumke - Commandant of the German Army Aviation School.

COL Ou - Director Army Aviation School, Formosa.

MAJ Andre Megard, MAJ R. L. Dubreuil, Lt Jean Baudin, Mr. Beauchart - France.

LTG Albert O. Connor - CG TUSA.

Vice Admiral Bernard M. Strean - Chief Naval Air Training, Pensacola, Florida.

LTG Charles W. G. Rick - Chief, Reserve Components.

MG Walter E. Brinker - Asst Deputy Chief of Staff ADCSPER, DA.

MG Charles M. Gettys - Director of Individual Training, Office of the Deputy Chief of Staff Personnel, Washington, D. C.

MG E. B. LeBailly - Cmdr, 16th Air Force.

MG W. H. Craig - Deputy CG TUSA.

MG George T. Duncan - MG USA Retired.

COL F. Feldman - German Liaison Officer, Ft Rucker, Alabama.

BG Adnan Erbaken - Turkey.

BG Michael J. L. Greene - Deputy Commandant, Army War College.

COL Earl C. Acuff - Deputy Asst Commandant USAITC, Ft Benning, Georgia.

COL David Byrne - TUSA Inspection Team Chief.

COL Kenneth E. Buell - Chief, Sch & Ed Div, DA Personnel.

COL Robert N. Mackinnon - Commandant, USAPHS, Ft Wolters, Texas.

COL Pizzi - Army Advisor to the Air War College.

LTC Russell E. Rumney - USA CGSC Special Representative Army Aviation.

LTC Jamil Rousan - Jordan.

LTG Walter T. Kerwin - DCSPER, DA.

SGM George Dunaway - SGM of the Army.

Honorable William K. Brehm - Asst Secretary of the Army (M & RA)

Minister Cottrell - State Department Representative to the Air University, Maxwell, AFB.

Mr. E. J. Ducayet - President, Bell Helicopter.

Mr. Hugh H. Hurt - Director of Institute of Aerospace Safety and Management, University of Southern California.

Mr. Richard D. Arthur - Director, Alabama Department of Aeronautics.

Mr. Walt Mortlac - Director of Product Support Engineering, Boeing/Vertol.

Dr. Frank Brisner - Representative Air Lift Sub-committee, Congress.

Dr. Francis Cartier - Director of Development, English Language School, Lackland AFB.

The following listed general officers and one high grade civilian received rotary wing qualification/refresher training:

BG E. L. Powell	29 Mar-31 Mar
BG E. B. Roberts	16 Apr-30 Apr
BG H. Moore	2 Jun-20 Jun
COL (P) S. S. Walker	30 Jun-18 Jul

BG D. V. Rattan	30 Jun-18 Jul
BG G. W. Casey	7 Jul-20 Jul
BG T. J. Camp, Jr.	4 Aug-21 Aug
BG J. J. Hennessey	2 Sep-20 Sep
MG L. Metzger (USMC)	8 Sep-20 Sep
COL (P) G. S. Patton	20 Sep-13 Dec
COL (P) T. M. Tarpley	22 Sep-24 Oct
MG E. W. Williamson	30 Sep-15 Oct
BG S. B. Berry	6 Oct-7 Nov
COL (P) T. W. Brown	26 Oct-29 Nov
GS-18 V. S. Haneman, Jr.	16 Oct-13 Jan 70



DEPARTMENT OF TACTICS

ORGANIZATION:

The Doctrine Development Literature and Plans Division was relinquished by Department of Tactics in September to come under the wing of the Assistant Commandant. When the Division left, Academics Division took over the responsibility of the RVN Briefing Room. Another major change in the Academics Division was the reorganizing of three of its branches into two. The names of two new branches are Command and Staff Branch and Special Subjects branch.

A good deal of change took place in physical appearance and procedures in CY 69. TAC-1 and TAC-X both had asphalt and concrete parking pads installed to ease problems with dust and grass.

TAC-1 tested the Bardic landing light system for one month for the British Liaison Office. The system has been returned along with its report.

TAC-X has put into full use a new 150 foot radio antenna to give greater range to communications. With new facilities and in-flight mission changes, a simulated Artillery Advisory Service was incorporated to give a more realistic atmosphere to training. Also a better coordination with external flights was evolved. A revetment was added for training purposes at the airfield.

Tactical training airstrips TAC-33, TAC-29 and TAC-57 were lost to the department, but were offset by the gaining of TAC-10, TAC-22 and TAC-62.

The Aviation Armament Division combined the Instructor Pilot Branch with the M22 Training Branch.

105mm artillery flares were added to night firing operations to increase realism and a new door gunnery course for crew chiefs was added. 429 fuses, 17 pound warheads and flechette rounds were added to the Navy IPQTC firing tables. Also, the 2.75 inch mini-rocket was approved for training by major USAAVNS elements.

The 307th Aviation Company (National Guard) was sent to Fort Rucker for training and was assisted by Department of Tactics when TAC-X served as operations for them and set up several operation orders.

To continue good rapport with local civilians, TAC-1's traffic pattern and ACP Juliet were moved to satisfy civilian complaints of aircraft over flying private homes.

New hook-up techniques were initiated in June, due to a high incident of dropped load sling loads in tactical maneuvers. The Rotary Wing Tactical Flight Maneuvers Guide has been changed to reflect new preflight and hook-up procedures.

In an attempt to reduce the number of failures on academic subcourse exams, the Academic Division, established new procedures concerning extra instruction. Immediately after a test is administered, the answer sheets are screened and the failures are notified of a time, date, and place where they will receive extra instruction. This instruction is mandatory and prepares the student for retaking the exam. The results of this program have been exceptional. Not only has the number of retake exam failures been reduced to an absolute minimum, but the number of initial failures has decreased from approximately sixty per week, to about ten to fifteen per week.



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.



To broaden the student's basic aviation education and to increase the graduated aviator's conscientiousness in the Army Aviation Safety Program, a USABAAR briefing on the organization, mission, and functions of USABAAR and on aviation safety has been incorporated into the Programs of Instruction for the WORWAC and ORWAC courses.

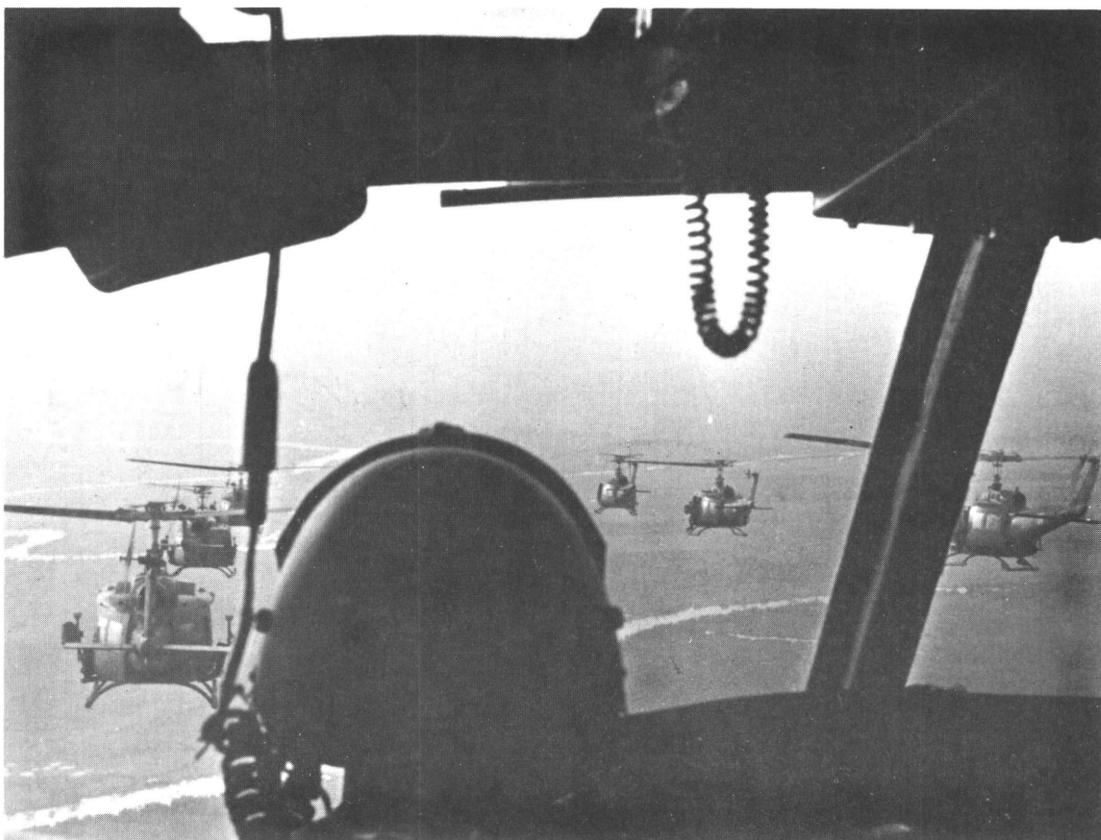
There were twenty-five aircraft accidents during the year which resulted in seven fatalities. This put the accident rate for the year at 14.25 accidents for every 100,000 hours of flying.

As the year closed the Department of Tactics was just beginning to feel the Defense spending cut, as it lost all 140 hours of AT-3 (instrument refresher) time and began to lose a number of Warrant Officers to the six month early out program.

PERSONNEL:

The strength of the Department of Tactics as of 31 December 1969 was:

	Authorized	Assigned
Officers	434	496
Enlisted Men	328	334
Civilians	27	27



Inside-out view from rear of seven-ship formation of U.S. Army UH-1 helicopters. Configuration is used in troop airlift deploying an airmobile assault company.

The department went through several changes of Command during the year. On 1 July LTC Archie W. Summers went from Deputy to Acting Director as COL Pumphrey left to take over the Directorship of DOI. In September COL William H. Harper came to the department to take over the directorship and LTC Samuel P. Kalagian arrived at the same time to take over the Deputy Director slot. LTC Summers went to Department of Rotary Wing training to assume the Deputy Directorship.

During the year the DOT trained 7145 aviators and 7465 enlisted men. With the exception methods of instructions training, the primary emphasis has been RVN oriented and missions, procedures, and techniques as realistically toned to that area as possible.

ACCOMPLISHMENTS:

During the year, DOT took part in numerous tactical demonstrations.

On 17 May, Armed Forces Day, DOT demonstrated a live troop lift with 12 slicks using Scouts and Huey gunships, using blank ammunition to add to the realism. In addition, a 48 ship formation flyby was presented. The program was enhanced by displays depicting life in RVN and static displays showing aircraft weapon systems.

On 19 June, DOT took part in a tactical demonstration at Fort Benning, Georgia for representatives of the US Military Academy, West Point. Among the audience present at the program were members of both the Army Scientific Advisory Panel and the Joint Civilian Orientation Conference.

Due to the large number of VIP's touring Fort Rucker, a new "Tactical Flight Training Briefing" was developed keyed to general coverage and rapid delivery for visitors with a limited amount of time.

Crews from DOT flew evacuation and relief aid missions following the Hurricane Camille disaster in August.

Several guides and manuals were rewritten, SOP's were updated, and training films were prepared during the year.

The movie, UTR-24, "Direct Aerial Support by Attack Helicopters" was completed and production was begun on a technical film on the XM27 Armament Subsystem for OH-6 and OH-58 helicopters. A draft printing of FM 1-40 a two volume manual with illustrations entitled "Attack Helicopter Gunnery," and a major revision of FM 1-110 (Attack Helicopter Employment) were completed by Aviation Armament Division.

In TAC Tng Division major publications revisions included the rewriting of the Division SOP, the Fixed Wing IP Guide, the Rotary Wing Tactical Flight Maneuvers Guide, the Rotary Wing IP Qualification MOI Syllabus of Instruction and the Fixed Wing Tactics Refresher Course Syllabus of Instruction.

DIRECTOR OF INSTRUCTION

ORGANIZATION:

Various changes were made in CY 69 in the departmental infrastructure to include:

On 1 July, the Data Systems Division was dissolved and personnel were assigned to the newly organized Management Information Systems Directorate (Prov).

On 30 September, the Film/Educational TV Division was moved from the Department of School Support to DOI due to recommendations of the FY 69 CONARC Manpower Survey Team.

The number of initial student entries into rotary wing training was reduced during the year to 6336. Reprogramming was effected to reduce the training output to 2126 from the School Element at Fort Stewart, Georgia. Similarly, pilot training for both fixed and rotary wing was reduced to a total of 5100. Initial rotary wing training was phased out at Fort Stewart, except for VNAF training. The phaseout is scheduled for completion 16 June 1970.

A Department of Army White Book Conference held on 12 November resulted in a revision of enlisted student training requirements from 2277 to 2114.

Increased student loads occurred in the intermediate and advanced Warrant Officer Career Development Courses with the former increasing 25% and the latter 50%.

On 19 November, a staff to obtain legislative revision of Section 3692, U.S. Code, Title 10, was sent to CONARC for consideration. The study asks for provisions to allow for more flexibility in training undergraduate Army aviators to include a reduction in the number of solo hours now required by Federal Statute.

On 7 May, USAAVNS sent a revised AH-56 advanced Training Plan to CONARC. On 19 May, DA cancelled the production portion of the AH-56A contract, causing the training plans to be set aside for future use.

PERSONNEL:

The initial resource estimate for MOS 67B, 67N, 51M, 67M and 71P was forwarded to CONARC in January and February. Approval for the required 67B, 67N and 51M personnel was received in June.

The yearend authorization for the Director of Instruction was 58 officers, 54 enlisted men and 64 civilians.

CURRICULUM DIVISION

ACCOMPLISHMENTS:

In October, the Systems Engineering Element of the Training Branch was established as the Systems Engineering Branch within Curriculum Division. Three ATC programs of instruction were systems engineered and CONARC granted interim approval.

Curriculum development groups have been formed to begin systems engineering the Helicopter Door Gunner Qualification Course - 67U2T.

An Instructor Pilot Qualification Course was established for IP's in the OV-1 and CH-54. The IPQC Course was later initiated for U-8D pilots.

As a result of a CONARC manpower survey, the Programed Instruction Branch was directed to be disbanded on 30 September. Because of the need for more time to complete current projects and train instructional personnel, a recommendation to conduct a phased disbanding of the Branch was submitted. The Assistant Commandant approved the recommendation and 30 June 1970 was set as the date for terminating PI Branch operations.

In conjunction with the dissolution of the PI Branch, a series of workshops for instructor training were initiated in November. In the first workshop (17 Nov-2 Dec) seven instructors were assigned to develop programs relevant to the needs of their respective departments.

The PI Branch has a total of 108 programed texts currently in use; 98 of which are in use at USAAVNS and ten which are used in the Nonresident Instruction Program. Of the 108 programed tests now in use, 25 were produced in FY 69. Nineteen of the programs now in use underwent major revision (75% or more) in CY 69. This was followed by development or revision of 17 more programed texts.

Twelve Systems Engineering, twelve Supervisory, and three Training Aids Workshops were conducted. Certificates of Training were awarded to 73 Systems Engineering Workshop attendees, 108 Supervisors Workshop attendees, and 18 Training Aids Workshop attendees. One Systems Engineering and one Supervisors Workshop were conducted each month and one Training Aids Workshop each quarter with the exception of the final quarter (1 October through 31 December). In addition, two instructors from the Academic Instructor Training Branch were sent to Hunter AAF, Savannah, Georgia, to conduct the Supervisor's Course and the Training Aids Workshop the weeks of 24 March through 28 March and 14 April through 18 April, respectively.

OPERATIONS DIVISION

ACCOMPLISHMENT:

In July, the Scheduling Branch began implementation of a plan to publish schedules for courses flowed on a training day schedule on a master schedule basis. This plan greatly reduced the typing load required for preparing schedules for a given course by allowing bulk reproduction of master schedules. In addition, it provides the student with a schedule for the entire course prior to the first day of instruction. Initial implementation included 67A10 and 67N20 Courses. Additional Courses are expected to be added in 1970 as stabilized flaws permit.

The User Maintenance Course (MOS 67V2T) and the Pilot IP/Gunnery Qualification Course started 4 August and 28 August with 17 and 18 students, respectively. A total of 672 MOS trained personnel will be assigned to the field in FY 70.

Twenty-seven ORWAC/WORWAC students participated in a test to determine if initial entry rotary wing aviators could qualify for a standard instrument rating. The test was completed on 8 April and 23 of the 27 students successfully qualified for a rating. A concept and plan for implementation of a standard rating program was approved.

The IMOI Examiner Test Course commenced on 5 May, with selected students. The objective of the test was to determine if IMOI students could qualify as instrument examiners without lowering present standards. It employed advanced educational/instructional methods such as programed instruction, synthetic flight training, and jumpseat training. Two students were selected. One student failed stage 3 qualification and the other com-

pleted the course successfully. It was recommended that further testing be conducted with a larger test group.

Initial entry rotary and fixed wing students participated in a test to determine if these students could successfully complete training in advanced aircraft during initial entry training. The last students completed on 21 August and a final test report was submitted in October. The test resulted in the accumulation of valuable data that can be applied to future training programs. It was determined that students can be transitioned into advanced aircraft during initial entry training. Major revisions are required to adjust solo and dual flight hours prior to students arriving at the advanced training base. Major revision of the POI is required and should be systems engineered. Implementation was not recommended.

EVALUATION DIVISION

ACCOMPLISHMENTS:

In May, CONARC tasked the USAAVNS to plan for the conduct of a Noncommissioned Officer Course in MOS 93L designed to prepare E6 and E7 personnel to perform as E8 and E9. The preliminary resource estimate was forwarded on 3 June; detailed plans were forwarded on 29 September. Systems engineering began on 7 August. CONARC letter dated 3 December added MOS 71P to the advanced NCOES at USAAVNC. Requirements for the course included furnishing other NCOE schools with Army aviation common subjects and establishing a correspondence course for each course established.

Beginning 4 August, a new POI for the Academic Methods of Instruction Course was implemented. The length of the present course is two weeks, one day. During CY 69, a total of 1,274 students attended the Academic MOI Course, with 1,025 instructors being graduates. This represented an overall 18.4% attrition rate. A total of 30 Academic MOI classes were conducted with an average of 42 students per class.

The quarterly Vietnam Veterans Debriefings were conducted in January, April, July and November. An average of 26 Vietnam returnees were present at each debriefing.

A test of a flight grading system with automatic data processing characteristics was concluded in April. During the test, a proposed flight grading system was utilized at the three flight training bases in all stages of initial entry rotary and fixed wing training. The test FGS was successfully employed in all phases of initial entry fixed and rotary wing training. However, the difference in organization of the three training bases and the fact that the use of ADP equipment for flight grading only is inefficient and unecocomical, the program was not recommended for implementation until ADP could be applied to the overall management of aviation training.

FILM/EDUCATIONAL TV DIVISION

ACCOMPLISHMENTS:

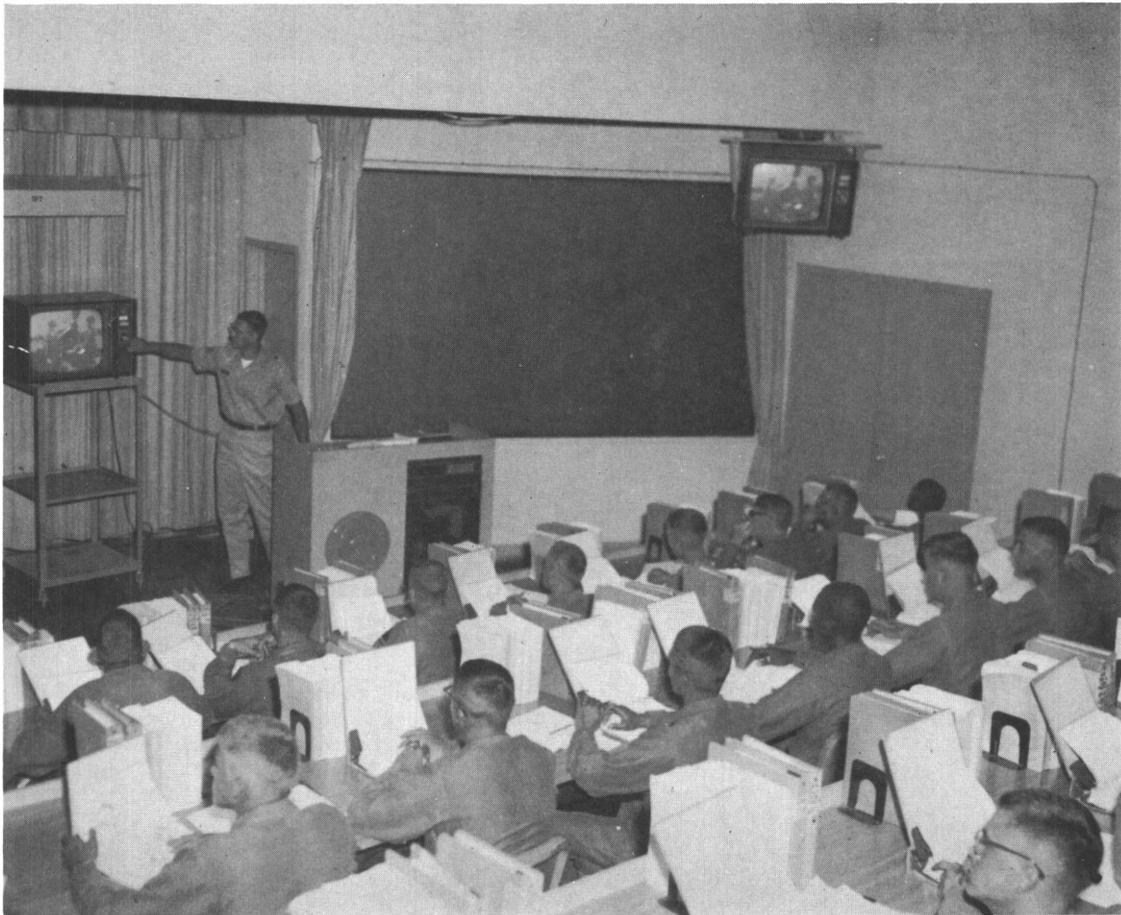
The Academic Methods of Instruction Course began using the Ampex 7100 television tape machines on a scheduled basis on 3 February. This provides the capability of immediate video tape playback of student presentation, allowing both a self-critique and instructor evaluation.

Four Class IV Signal Projects were approved totaling \$400,000. Included in these projects were additional transmission and control equipment, a master control console, five additional television tape playback machines and one additional film chain. Expansion of the ETV distribution system to 111 additional classrooms began on 3 September with a scheduled completion date of March 1970. This will include 22 classrooms located at

Cairns, Hanchey and Lowe AAF's. When completed, ETV will be distributed to a total of 202 classrooms.

FY 70 Training Film Program was submitted to CONARC and was approved at a total cost of \$896,400. Two projects were transferred to TV; two projects were transferred to the Transportation School; and three projects were cancelled. A decision of the annual Audio-Visual Conference to place all Category I films directly under CONARC resulted in a phasing down of training film requirements and a marked increase in the number of TV requirements. Only those projects which are not feasible to be TV productions will be done as training films. Eight training films were completed this year.

The TV section was responsible for the production of fifty projects during the year.



Classroom session using ETV for audio-visual aid

DEPARTMENT OF MAINTENANCE TRAINING

ORGANIZATION:

As of 1 January, the Department of Maintenance Training was authorized 86 Officers, 6 Warrant Officers, 953 Enlisted Men and 77 Civilians. Due to a reduction in resources, manpower surveys and mission changes, authorization fluctuated until 24 August when the Maintenance Support Division, was reassigned to Department of School Support; however, operational control remained with DOMT. Authorization on 25 August was changed to 55 Officers, 2 Warrant Officers, 631 Enlisted Men and 60 civilians. Maintenance Support Division, DOSS was authorized 1 Officer, 38 Enlisted Men and 69 Civilians.

Beginning 1 July, an additional hour of instruction on the prevention of FOD in turbine engines was introduced into all enlisted courses taught in DOMT.

During July, DOMT began sponsorship of the "Maintenance Matters" page of Aviation Digest.

The OH-58A enlisted helicopter repairman's course was implemented on 5 August. The MOS awarded for completion of the course is 67V2T. The OH-58A officer course began on 4 September.

On 10 October the 51M20 Firefighter Course was transferred to the Department of Special Aviation Training.

In December, all Skill Development Base programs assigned to DOMT, with the exception of the 51M40 course, were deleted.

PERSONNEL:

Colonel Harold A. Tidmarsh, the Department Director and Lieutenant Colonel DeVerne R. Yost, the Deputy Director were both retired from the Army on 1 August. They were replaced by Colonel Earl L. Russell, Jr., Director and Lieutenant Colonel Onore E. Case, the Deputy Director. On 19 December, Colonel Russell was reassigned as Commanding Officer, USAAVNS Regt. He was replaced by Colonel William C. Edler, as Department Director.

During the year, the department lost 630 enlisted men and gained 700 replacements. This constant turnover of personnel created many problems throughout the year in lack of continuity and at times, critical shortages of qualified instructors. The majority of newly assigned personnel had to attend MOI training - nonproductive time. The year ended with an overage of EM which alleviated the turbulence and turmoil of the entire year.

ACCOMPLISHMENTS:

During the calendar year 1969, The Department of Maintenance Training trained 8,641 enlisted repairmen in aircraft maintenance and 7,803 aviators in the operation of aircraft systems.

Construction was begun on the new Turbine Engine Runup facility on 31 March by the D&H Construction Co. out of Pensacola, Florida.

On 19 August the Department participated in the Military Assistance to Civil Authorities Program (MACAP-Hurricane Camille) in the Gulfport Mississippi area. DOMT provided a total of 23 enlisted men to serve as crew chiefs and maintenance supervisors from 19 August to 30 September.

PRIME MAINTENANCE DIVISION

ORGANIZATION:

During calendar year 1969 the PE Section, Power Plants Branch, moved from buildings 6001 and 6009 into building 6013. The PE Exam Section, General Subjects Branch moved from building 5005 to building 5013B.

PERSONNEL:

LTC William D. Brooks, Div Chief, transferred 14 January to Avn Acdt Inves Board.

LTC Paul W. France, G/S Branch Chief, replaced LTC Brooks as Div Chief, 14 January.

LTC France, Div Chief, transferred to Louisiana State National Guard, 17 June.

LTC Dale G. Ruebsamen replaced LTC France as Div Chief, 17 June.

ACCOMPLISHMENTS:

During the CY 69, General Subjects Branch personnel reviewed Lesson Plans, Training Aids and Master Files. Power Plants Branch personnel wrote, edited and secured printed copies of an advance handout for students attending the 67A10 Course. The Testing Section of Power Plants Branch assumed responsibility for development and administration of the following exams:

- a. Exam 16 DOMT 1 - 2 for F/W Div
- b. Exam 17 DOMT 1 - 2 for C/O Div
- c. Exam 18 DOMT 1 - 2 for C/O Div
- d. Exam 77 DOMT 1 - 2 for F/W Div

FIXED WING DIVISION Headquarters

PERSONNEL:

The Fixed Wing Division was commanded for the first part of CY 69 by LTC Richard L. Dismuke. LTC Carl H. Sawls, Jr., replaced LTC Dismuke and assumed command throughout the remainder of the year.

Chief Instructor for the beginning of year was SGM J. Meece who was replaced by SGM T. Bolin. In July SGM William T. Anderson assumed the position of Chief Instructor for the remainder of CY 69.

SINGLE ENGINE BRANCH

ORGANIZATION:

In December the Single Engine Branch moved out of building 5406 allowing the USAAVNS Educational T. V. Branch to move in. The Single Engine Branch gained building 5401 as a replacement.

PERSONNEL:

During 1969 the Single Engine Branch gained 66 new personnel and lost 51. Incoming personnel included Major George J. Senter, the branch commander, Captain Clifford E. Letts, Jr. and Shelby P. Horn, section leaders of the U-6 and O-1 sections respectively.

ACCOMPLISHMENTS:

The Single Engine Branch, Fixed Wing Division, had 3 POI courses in residence during the year with a total input of 1,525 students. The breakdown of these POI's with student attendance is outlined below:

67B20 (SEUAMC) -----	767
2B-1980-A/23 - 061B, 061C (OFWAC) -----	616
T-41 Maintenance (Aviator Qualification Course) -----	160

A special two hour class of instruction on O-1 maintenance and maintenance difficulties in Vietnam was presented to 102 Fixed Wing Aviator Course students in March.

Special classes on the T-41 Maintenance (Aviator Qualification Course) were conducted for 6 General Officers this year to include Major General Erby at Fort Polk, Louisiana this last quarter.

MULTI-ENGINE BRANCH

ACCOMPLISHMENTS:

During CY 69 seven members of this Branch attended Factory Maintenance Schools. The schools covered various phases of maintenance including Mohawk's, ejection seats, propellers and engines.

During CY 69 fourteen recommendations for the Army Commendation Medal for Meritorious Service were submitted for departing individuals who had made outstanding contributions to the mission of the MultiEngine Branch.

Eight hundred sixty one students were fired in the 9E2A Ejection Seat Simulator; this includes all official DA students and those on a bootleg basis.

During the period 1 January through 31 December, the M-E Branch, F/W Div, DOMT, had eleven POI courses in residence with a total input of 1,090 students attending. A breakdown is outlined below:

- a. U-21 Ute, Aviator Qualification Course, (220 Students).
- b. U-21 Ute, Instructor Pilot Course, (45 Students).

- c. OV-1 Mohawk, Instructor Pilot Course, (22 Students).
- d. OV-1 Mohawk, Aviator Qualification Course, (180 Students).
- e. OV-1 Mohawk, Airplane Repair Course 67H20, (238 Students).
- f. T-42 Baron, Instrument Flight Examiner's Course, (54 Students).
- g. U-8D Seminole, Instructor Pilot Course, (13 Students).
- h. U-8D Seminole, Fixed Wing Instrument Qualification Course, (45 Students).
- i. U-8D Seminole, Aviator Qualification Course, (137 Students).
- j. OV-1D Mohawk, Basic Medicine Course, (120 Students).
- k. OV-1D Mohawk, Orientation Course for Senior AMEDS, (16 Students).

In addition to the above, 80 students attended a bootleg basis as indicated below:

- a. T-42, Qualification and Instrument Flight Examiner Course, (51 Students).
- b. U-21, Aviator Qualification Course, (19 Students).
- c. U-8D, Aviator Qualification Course, (10 Students).

UTILITY/ATTACK DIVISION

ORGANIZATION:

There were no major changes in mission, organization or functions during CY 69.

The U/A Division lost three buildings during CY 69 while gaining one. The division also lost TAC "A" airstrip but was assigned the East ramp of Guthrie AAF.

PERSONNEL:

Personnel gains and losses averaged out to a turnover rate of 93% during the year. During this period, 13 officers and 176 enlisted men were assigned while 9 officers and 197 enlisted men were reassigned.

ACCOMPLISHMENTS:

The following reflects the major instructional activities:

A total of 3077 students completed the enlisted men courses including 2040 for assignment in MOS 67N20 and 1037 for assignment in MOS 67A2F.

A total of 5346 students completed the following aviator courses:

- a. GORWAC - 15
- b. ORWAC - 1305
- c. WORWAC - 3280

- d. FMT - 73
- e. NAVY - 105
- f. RWQC - 30
- g. DAIPQTC - 265
- h. IPQTC(MOI) - 272

The average failure and/or attrition rates for the above courses were as follows:

- a. All aviator courses - .003%
- b. All enlisted men's courses - .569%

Sixteen General Officers enrolled in, and completed training of, Major U/A Division Aviation Courses.

INSTRUCTION SUPPORT DIVISION

ORGANIZATION:

The following aircraft transfers occurred during CY 69:

One CH-37B was transferred to the Alabama National Guard. Another was made flyable by mechanics of the Texas National Guard and then flown to Texas. ISD assisted to make the aircraft as safe as possible for the one-time flight.

Two U-8D's were prepared and sling loaded via CH-47B to Atlanta General Depot for rebuild. These aircraft, which were not safe for flight, had been used extensively for maintenance training aids.

One OH-13E was transferred to Department of Rotary Wing.

One flyable OH-23G was transferred to Fort Carson, Colorado. This transfer was accomplished with very little difficulty.

Two CH-34C's were salvaged. It was determined by AVCOM that they were no longer required for flight training.

ACCOMPLISHMENTS:

ISD completed a total of 323 intershop work orders, expending 13,026 man-hours.

The Material Support Branch processed 211 training aid work orders and 20 engineer work orders for the DOMT during the calendar year.

A total of twenty-one aircraft received calendar inspections, which includes a complete technical inspection for discrepancies, repair and replace parts as necessary, paint, and return to the instruction Division as a better instructional training aid.

Three flyable aircraft, eight aircraft training aids, one museum aircraft and four engine test cells received complete paint jobs.

ISD displayed the wiregrass flying machine on Armed Forces Day. Also in conjunction with the AFD display, a Martin Baker Ejection Seat Trainer and a test cell received complete painting.

An aircraft was given a complete restoration for the museum. ISD also assisted the museum in moving several aircraft to their present location.

An OH-13 and Ol-A received new overhauled engines. The engines removed had reached their established TBO.

CARGO/OBSERVATION DIVISION

ORGANIZATION:

In order to maintain the high standards established by the Department, the Observation Branch initiated a Quality Control Section within the past year. Individuals within the section monitor classes, review lessons and exams, and offer recommendations to the Branch Chief on how to improve courses of instruction.

POI changes have been submitted on the 2C-062D-B CH-47 (Chinook) Pilot Transition Course and the 2C-F16 (Flying Crane) CH-54 Pilot Transition Course. The Cargo Br has added five hours of instruction to the 2C-F10 CH-47 (Chinook) Instructor Pilot Qualification Course in order to include Preflight Inspections and more time on Fuel & Oil Systems, Flight Controls and Electrical Systems. In the CH-34 Instructor Pilot Qualification Course we have submitted a request for change in order to align the more difficult subjects and add a much needed Preflight Inspection.

The Cargo Branch continued to revise examinations, update lesson plans, and cross train new instructors. There were over 875 students completing the Pilot Transition courses and Instructor Pilot Qualification Courses.

No major accidents or injuries involving C/OD personnel occurred during the year.

PERSONNEL:

LTC William C. Weaver departed C/OD for an assignment at HQ, DOMT and LTC T. J. Clark, Jr., Cargo Branch Chief, was assigned duties as Chief, C/OD on 16 September.

ACCOMPLISHMENTS:

During the past year the Observation Branch has instructed over 1400 enlisted personnel as crew chiefs and mechanics and over 900 officers in instructor pilot and rotary wing qualification courses.

An OH-58A helicopter course for mechanics and pilots was set up during this period. Instructors for the course were drawn from assets within the branch and sent to the Bell Helicopter Plant at Fort Worth, Texas, for factory training in the aircraft. From this initial input of 19 officers, enlisted men and civilians, the OH-58 Section is now comprised of over 50 fully qualified instructors to handle the schooling on the Army's newest rotary wing aircraft.

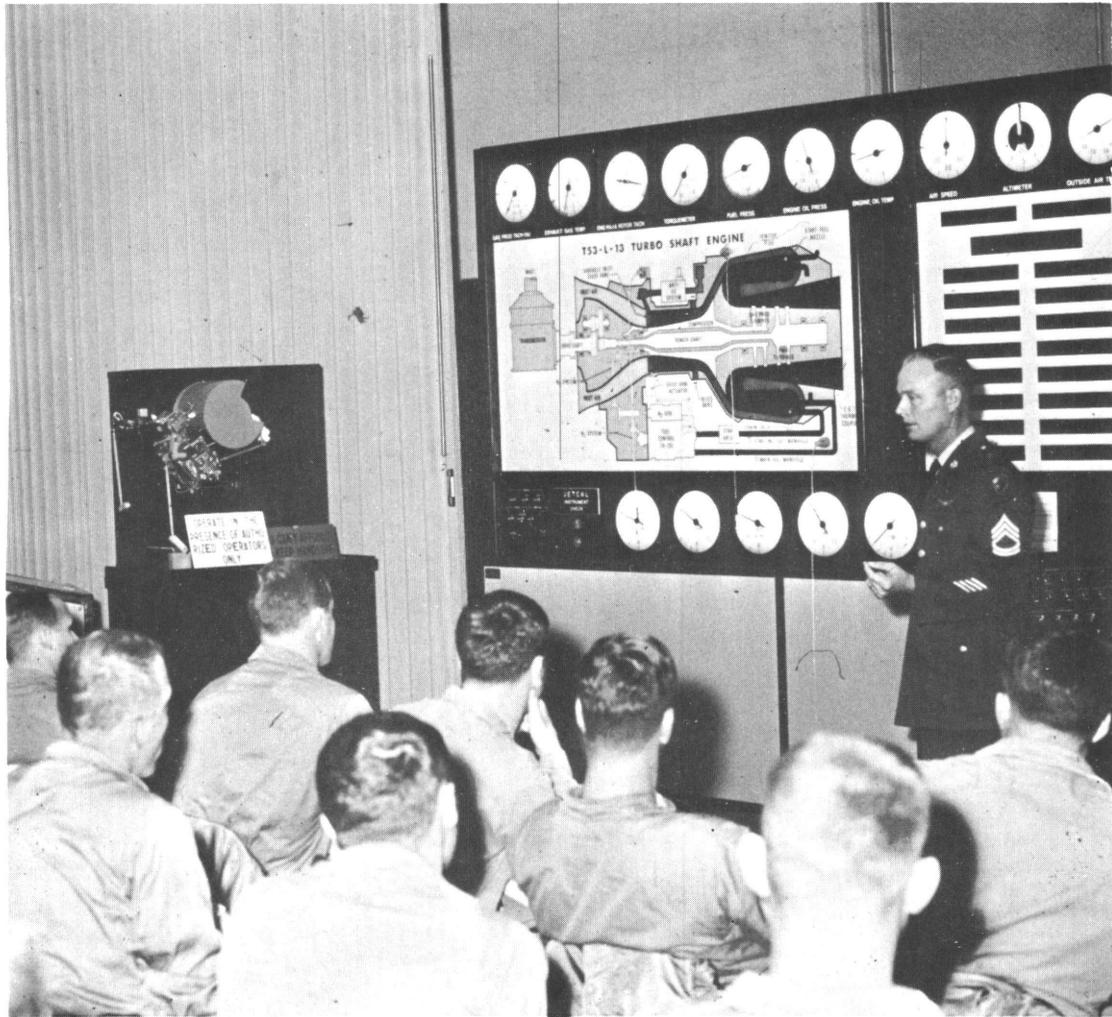
During August, the Observation Branch had four individuals serving as crew chief on OH-6 aircraft sent from Fort Rucker to assist the survivors of Hurricane Camille.

To better improve communications with the civilian community, the Observation Branch was delegated the responsibility of providing an OH-58 helicopter for the following festivities:

1. Dothan Peanut Festival Parade

2. Troy State University Homecoming Parade
3. Enterprise Veteran's Day Parade
4. Hartford Christmas Festival Parade

At each parade at least one officer and NCO accompanied the aircraft to insure that safety procedures were enforced and answer questions by the public concerning the OH-58 and its role in Army Aviation.



Learning about the turbine engine

DEPARTMENT OF SPECIAL AVIATION TRAINING (PROVISIONAL)

ORGANIZATION:

The Department of Special Aviation Training was organized 1 October by merging the Air Traffic Control Training Department and the Aviation Warrant Officer Career Development Department, now divisions within DSAT. The department has responsibility for all academic instruction in air traffic control and warrant officer career courses.

PERSONNEL:

COL E. Ray Fitzgerald was named as Director of DSAT.

AWOCAR DEVELOPMENT DIVISION

ORGANIZATION:

On 7 July, the initial Aviation Warrant Officer Intermediate Course was matriculated, marking the first permanent change of station study course at USAAVNS, and it was the advent of Warrant Officer Career Courses in the US Army.

On 20 August, the first Aviation Warrant Officer Advanced Course began. Student officers were welcomed by Commandant, US Army Aviation School, MG Delk Oden, with the words, "You are the airline captains of Army Aviation."

On 12 December, 87 members of the WOCAR became the programs first graduating class.

ATC TRAINING DIVISION

ORGANIZATION:

Under the director of DSAT, the ATC division was reorganized into Basic, GCA, Approach and Tower Branches. The four branches now give a total of 1046 hours of instruction.

On 20 October, the ATCTD assumed training responsibility for all Army Air Traffic Control Training including classroom and instructional material preparation.

In November funds were made available for the purchase of necessary AN/TSQ-70A-TI towers for use at ATC training sites and tower consoles for classroom instruction.

In addition, a \$1.9 million appropriation for an ATC training computer was approved by USAAVNS.



DEPARTMENT OF ADVANCED FIXED WING TRAINING

HEADQUARTERS & OPERATIONS DIVISION

ORGANIZATION:

On 5 March, the Department received its annual IG. There were no discrepancies noted by the inspection team, who had only complimentary remarks.

Department of Army approved a test program (Operation Specialization) for initial entry students which qualified selected personnel in the OV-1 and U-21 aircraft. The two test groups were selected and the OV-1 group started Phase III on 24 March. A U-21 group started Phase III on 7 April. Each unit phased into its respective class for advanced transition training.

USAAVNS purchased two Gat-II twin-engine instrument trainers (simulators), manufactured by the Link Corporation. These units were delivered 31 March. Department of Advanced Fixed Wing Training, HUMRRO, and USAAVNTBD evaluated the trainers for their effectiveness to current training missions.

A test of the flight grading system based on grading by exception was initiated on 18 October 1968 and put into effect beginning 1 December 1968, and completed on 7 March. Additional testing involving another class was completed on 12 March. It was recommended that the grading system be all inclusive and not based on grades by exception, and that the grading system as tested be discontinued and an A, B, C and U grading as specified in USAAVNS Reg 350-16 be utilized.

A cataloging system was initiated whereby all discrepancies are noted and logged by type aircraft, discrepancy and maintenance work accomplished to remove the discrepancy. This cataloging of information, together with excellent coordination with the maintenance personnel, has been a significant factor in perceiving trends and initiating action to prevent mishaps from occurring.

PERSONNEL:

On 19 February, the Department's TDA was changed to reflect an additional space in headquarters of Executive Officer and civilianization of the Branch Chief, Admin Branch to Administrative Officer, GS7; effective date of TDA was 31 December 1968. After fluctuating throughout the year, December authorized strength was 148 officers, 15 warrant officers, 40 enlisted men and 77 DA civilians for a total of 280. Recognized operational strength ran slightly higher throughout the latter part of the year.

COL Charles R. Shaw became DAFWT director on 7 May, replacing LTC Benjamin E. Estes. LTC William L. Hindman replaced LTC Michael M. Davis as deputy director on 1 May.

ACCOMPLISHMENTS:

The Accident and Incident rate for CY 69 was slightly lower than CY 68. The accident rate was 7.40 for CY 68 and 7.05 for CY 69. The Incident rate was relatively the same as CY 68, with an increase from 94,301 hours flown in CY 68 to 99,234 hours flown in CY 69. No injuries or fatalities occurred as a result of accidents in CY 69.

ACADEMICS DIVISION

ORGANIZATION:

The Department Director approved during May a consolidation of two branches within the Division - Common Subjects and Special Subjects - to form the Advanced Subjects Branch. This merger was necessary to gain economy of force with existing resources during a period when instructional requirements have increased with no increase in personnel authorization because of the limitations of PL 90-364.

A career development program, designed to train civilian instructors for career positions, fulfilled all set objectives and in addition produced a qualified instructor ahead of schedule.

PERSONNEL:

The Academics Division remained under strength in qualified instructors (4 GS-11's and 2 CPT's) at the end of the year.

The personnel of the Academics Division were the recipients of seven promotions during the last quarter. Six were received by military personnel and one by a civilian. In addition, the Division lost four officers, two enlisted men and one civilian. It gained four officers and two enlisted personnel.

ACCOMPLISHMENTS:

The Fort Rucker 1969 "Employee of the Year" went to Mr. William B. Wells, DAC, Academic Instructor in the Advanced Subjects Branch.



BG George S. Blanchard, Director of Plans and Programs, OACSFOR, DA, checks flight log book with his DAC Instructor Pilot, Mr. Paul F. Meyers. BG Blanchard recieved initial fixed wing transition training in the T-41 and T-42, from 23 June to 3 July.

CONTRACT EVALUATION DIVISION

ORGANIZATION:

During CY 69, CED initiated use of programmed text in the FW Qualification Course to allow students to progress at their own speed, graduating on a proficiency basis.

Personnel of CED flew a total of 2053 checkrides, 379 of which were unsatisfactory, during CY 69, for the purpose of monitoring and evaluating instrument flight training conducted by Ross Aviation, Inc.



DEPARTMENT OF SCHOOL SUPPORT

ORGANIZATION:

On 1 October, implemented by CONARC Manpower Survey Team recommendations, a major re-organization of Department of School Support (DOSS) took place. The Film-ETV Division and TUSA Training Aids Center were transferred to DOI and G3 respectively, and the Army Field Printing Plant was transferred from Department of Non-Resident Instruction to DOSS.

PERSONNEL:

Personnel allowance of nine officers, two warrant officers, 51 enlisted men and 92 civilians was authorized during the year; however, this was later reduced on 31 December due to stringent civilian manpower ceilings. No change was made to recognized requirements of nine officers, two WO, 51 EM and 104 civilians.

SECRETARIAT FOR DEVICES

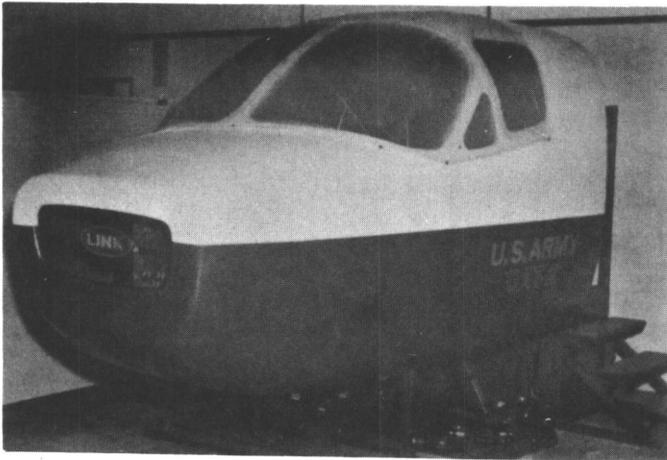
ACCOMPLISHMENTS:

Two GAT 2 Flight and Instrument Trainers were procured through ACofS, G4 in March. Test and evaluation of the two trainers was conducted by the Aviation Test Board and HumRRO No. 6 (Aviation). A final report was received from the Aviation Test Board concerning maintenance and reliability of the GAT 2. Research Group 3 of the US Army Human Resources Research Organization submitted an interim report concerning the Evaluation of Transfer of Training. Both reports were favorable to such a degree that DOSS, in conjunction with the Department of Advanced Fixed Wing Training, began to draft a Training Device Requirement (TDR) for a similar type device.

The US Naval Training Device Center awarded a contract for the Synthetic Flight Training System (SFTS) Developmental Model in the amount of \$3,500,000 to Singer-General Precision Inc., Link Group, Operational Training Division. The Mobile District of the Army Corps of Engineers contracted with Sherlock, Smith, and Adams of Montgomery, Alabama, to design a building to house the trainer. The Qualitative Materiel Requirement (QMR), prepared by USAAVNS that initiated action to obtain this device, also described a requirement for a CH-47 Mobile Operational Flight Trainer (OFT) and assigned priorities for delivery of the SFTS to both the USAAVNS and eight aviation field units.

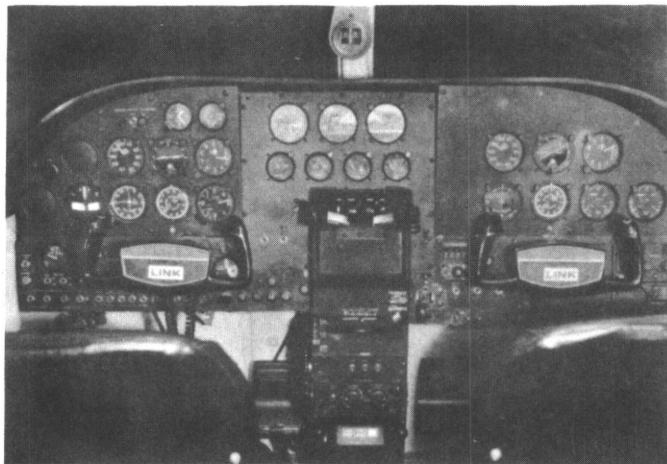
A proposed change to the Synthetic Flight Training System Qualitative Materiel Requirement was forwarded to CONARC. This change recommended the substitution of a CH-47 cockpit module, which is interchangeable with the UH-1H modules of the developmental model now under contract, instead of a mobile CH-47 field unit. It also recommended giving first priority to procurement of the USAAVNS SFTS system as opposed to other CONUS installations as outlined in the QMR. The developmental model is scheduled to arrive at Fort Rucker in August 1970.

The US Naval Training Device Center awarded a contract for Device 15G16, Radar Operator Training Complex, and Device 15G16A, Radar Target Simulator, to Reflectone, Inc. These trainers are to be used by the ATC Division, Department of Specialized Aviation Training. Contract cost is \$1,640,000. Device 15G16 is scheduled for delivery in March 1970. The first unit of Device 15G16A is to be delivered in May 1970 with unit number six (last unit) five months thereafter.



External view of the GAT-2, an off-the-shelf fixed wing instrument trainer. The unit was released by USAAVNS in March for use by DOSS after a period of extensive evaluation by HumRRO and the USAAVN Test Board.

Interior view of the GAT-2 depicts the realistic environment simulation relative to a twin-engine fixed wing aircraft. DOSS, in conjunction with the Department of Advanced Fixed Wing Training, instituted proposals for additional simulation-type devices.



Action was taken on numerous other major device projects during fiscal year 1969. Among them, the Cheyenne Combat Operations Simulator System (C-COSS) QMR was approved by CONARC and a briefing on the project was presented to MG Klingenhagen, the AH-56 Project Coordinator. The General commented favorably on the briefing; however, because the AH-56 production contract was cancelled, the QMR is held in abeyance.

Correspondence, including technical characteristics for an OV-1 Cockpit Procedures Trainer, was forwarded through CONARC to the Army Participation Group, US Naval Training Device Center. This project was approved and funds were provided by AMC.

The Army Participation Group, USNTDC, requested procurement of an OH-58A/T63-A-700 Power Plant Simulator. The project was approved and fiscal year 1970 funds programmed by AMC for the device. A contract award is scheduled for May 1970. A Draft Training Device Requirement (TDR) for a subcaliber 2.75" Rocket (Mini-Rocket) was finalized and forwarded to CONARC.

A requirement for five OV-1 trainers by the Department of Maintenance Training was approved by CONARC. The devices, estimated to cost \$372,000 are still unfunded at the close of the year.

As a result of a training requirement for an Armed Aircraft Qualification Range Scoring System, a Small Development Requirement (SDR) was forwarded to CONARC. The project was approved, and AMC budgeted fiscal year 1970 funds for concept formulation studies. Two study contracts were awarded, one to Del Mar Engineering Laboratories and the other to Sanders Associates. The studies were completed in November and the reports are undergoing evaluation.

MASTER PLANNING AND FACILITIES SUPPORT DIVISION

ACCOMPLISHMENTS:

The MP&FS Division experienced its busiest, most productive year of operation. Numerous major planning actions were accomplished to support the proposed/actual FY 70 and 71 programs of instruction. These included the Warrant Officer Career Development, Air Traffic Control, Skill Development Base, Allied Military Training, Initial Entry Rotary Wing Instrument Training in addition to major MCA projects involving the instrument trainer and USAAVNS administrative buildings.

Studies were made concerning utilization of USAAVNS facilities; Knox Stagefield conversion to a basefield was begun and due to stringent funding guidance, a complete review of all MCA projects was undertaken. Studies and planning actions were accomplished in addition to the normal review, check and monitorship of all routine work necessary for facilities maintenance as required by instructional departments.

PROGRAMS DIVISION

ACCOMPLISHMENTS:

Total FY 69 expenditures for the USAAVNS amounted to \$10,486,620. This included funding for nine major projects; i.e., ATC school (\$1,644,442), Dept of WO Career Development (\$26,347), OH-58 Special Tools (\$47,000), Engine Run-up Facility (\$215,000), and an In-side/Outside Plant for the educational television distribution system (\$225,100), Radar Simulator Device (\$1,533,555), Proximity Warning Devices (\$755,711), Class IV Signal Projects for ETV expansion (\$157,907), and components and instrumentation for a Turbine Engine Run-up Facility (\$213,000).

SUPPLY DIVISION

ACCOMPLISHMENTS:

Logistic support for the instructional departments continued at a steady rate throughout the year. Changing requirements were accomplished in a timely manner and at no time was any phase of any course delayed or otherwise jeopardized because of inadequate logistic support. Transactions were categorized and logged as follows: Transactions prepared - 64,830; Requests filled by station supply - 16,010; Issues to hand receipt accounts - 25,755; Turn-in accepted from hand receipt accounts - 10,929. Number of students processed through text issue point were as follows: Officers processed in - 11,238; Officers processed out - 12,430; Enlisted personnel processed in - 12,478; Enlisted personnel processed out 12,375. Number of personnel processed through Student Equipment Pool - 17,983. Number of publications issued by text issue points were as follows: Officers' Text Issue - 853,098; Enlisted Text Issue - 304,947; Staff & Faculty - 86,136. Items of organizational clothing equipment and flight equipment issued - 202,446. Total amount of supplies transported: 3,861,471 tons. Aircraft transactions were as follows: Turned in - 155; Received - 207.

DEPARTMENT OF AEROMEDICAL EDUCATION AND TRAINING

ORGANIZATION:

During the year plans were initiated by LTC James H. Nichols for expansion of the department into two additional cantonment buildings adjacent to the present facilities to accommodate the expanding activities of the Aeromedical Consultation Service and its instruction missions.

LTC Tomas Birriel-Carmuna and MAJ John P. Heilman, residents in Aviation Medicine, Phase III, assigned to DAET, USAAVNS, for training during the year, completed numerous required educational field trips which included visits to Redstone Arsenal, Southeast Asia, and National Communicable Disease Center, Atlanta, Georgia.

PERSONNEL:

The department was joined by MAJ Nicholas E. Barreca, a recent graduate from the Aviation Medicine Residency Training Program, as Chief, Professional Education Division.

The department was joined by MAJ Reginald R. Barden as the Aviation School Physiological Training Officer. MAJ Barden attended the USAF Physiological Training Officer's Course at USAF-SAM, Brooks AFB, Texas, just prior to joining the department, becoming the first rated Physiological Training Officer of the Army. A few of his projects include enhanced physiology training of Army Aviators. Included is the construction of a night vision training classroom.

ACCOMPLISHMENTS:

The Army Flight Surgeon's Manual begun in 1967 was completed just before the close of the calendar year and was scheduled for printing and release by January 1970. This two volume, 1200 page manual will serve as a textbook for the AAM(B)C and as a field guide for the unit flight surgeon. Guiding this book to its publisher has been MAJ William G. Caput, the project officer.

The department was incorporated into the ETV network and several ETV film clips were prepared by CPT Julius H. Stokes and CPT William H. Clark in areas of ophthalmology and electrocardiography for use in the AAM(B)C program.

Pursuant to Army Regulations 40-501 and 600-108, DAET maintained an Aeromedical Consultation Service which included conduct of an Aeromedical Consultation/In-Flight Evaluation Service. During the year, the Service evaluated 82 individual cases, 34 under the Aviation Medicine Consultation Service (AR 40-501), and 48 by the Aeromedical Consultation/In-Flight Service (AR 600-108). Of the 34 cases evaluated by AMCS, 17 were returned to full flying duty and five to restricted flying duty. These cases represented a return to duty of men representing 26,860 hours of flying experience and a savings of \$800,000 training dollars.

DEPARTMENT OF NON-RESIDENT INSTRUCTION (PROVISIONAL)

ORGANIZATION:

Effective 1 January, the department lost one military slot - the Administrative Officer. This brought the department's authorized strength to 121 - 95 civilians; 22 enlisted men; and 4 officers.

In June the Department received six summer temporary employees. Two were assigned to the Library; two to the Printing Plant; and two to the Extension Division.

Effective 1 October, the Department of Publications and Nonresident Instruction was reorganized by authority of DF dated 25 August from ACofS, G1 to the Director, Department of P&NRI.

The following disposition was made of the department's divisions:

Office of the Director: Two civilian spaces and one military space were assigned to the newly organized Department of Nonresident Instruction. They include the director, Lieutenant Colonel Joseph H. Poole, who was temporarily reassigned as Director of the Department of Nonresident Instruction; the deputy director, Mr. Thomas J. Sabiston, and the secretary (steno). Two civilian spaces were assigned to the Admin, Supply and Distribution: one clerk; and one editorial clerk. These spaces will work under supervision of the Director and handle the administration of the Department.

U.S. Army Aviation Digest: One civilian space was eliminated; seven civilian spaces and one military space were assigned to the Secretary, U. S. Army Aviation School (USAAVNS) but designated to remain under the operational control of the Director, Department of Nonresident Instruction. The space eliminated was that of editorial clerk. Those reassigned were one military (MAJ) and the following civilian spaces: two editors, two writers, one editor which was being carried as recognized but not authorized, one clerk steno, one file clerk and one clerk typist.

U.S. Army Aviation School Library: Three civilian spaces were eliminated and five were assigned to the Secretary, USAAVNS. The spaces eliminated were those of reference librarian, one library technician and one clerk typist. Those reassigned are supervisory librarian and four library technicians.

Literature Division: One military space and two civilian spaces were lost. No civilian spaces composing the Technical Publications Branch were assigned to the Director of Doctrine, Developments, Literature and Plans. Three civilians composing the Graphic Arts Branch were assigned to the Training Aids Center under G3, but remain under the operational control of the Director, Department of Nonresident Instruction. One military space entitled chief (MAJ) and one civilian space entitled editorial clerk (steno) were eliminated. They had been located in the office of the chief. The Technical Publications Branch spaces reassigned were: one supervisory educational specialist, four educational specialists, one technical publications writer, one supervisory editorial assistant, one editorial assistant and two clerk typists. Graphic Arts Branch had one supervisory illustrator general space eliminated. Three other spaces, all illustrator general, were assigned to Training Aids.

Extension Division: Two military spaces and 11 civilian spaces were assigned to the Department of Nonresident Instruction. They are: one military space entitled chief (MAJ), two educational specialists, one editorial assistant one clerk steno, one clerk, three clerk typists, one supervisory supply clerk, one supply clerk, one supply (motor vehicle operator), and one military space-light vehicle operator.

U. S. Army Field Printing Plant: Twenty-one military spaces and 50 civilian spaces were assigned to the Department of School Support. They are:

Military spaces: two senior offset pressmen, one process photo, four platemakers, two offset pressmen, two senior bindery specialist, one bindery foreman, and nine bindery specialists.

Civilian spaces: One plant superintendent, one clerk typist, one supply clerk, one cold type composition supervisor, six cold type composition operators, two illustrators, two editorial clerks, one photo foreman halftone, three photo halftone, three film assembly strippers, two platemakers, one offset press foreman, one offset press lead foreman, eleven pressmen, one bindery foreman, two collator operators, one power folder operator, one power cutter operator, seven bindery workers, one production and reproduction foreman, and one production plant equipment mechanic.

PERSONNEL:

Effective 1 February, LTC Joseph H. Poole assumed the position of Director, Department of Publications and Nonresident Instruction. He replaced Mr. Thomas J. Sabiston who had served as Acting Director since 3 June 1968. Mr. Sabiston resumed the duties of Deputy Director.

On 1 November LTC Joseph H. Poole left the position of Director of Nonresident Instruction. Mr. Thomas J. Sabiston, Deputy Director, was named director and the deputy director position was eliminated. The Department of Nonresident Instruction was reorganized internally to include the Office of the Director (2 civilians); the Correspondence Courses Division (formerly the Extension Division) with one military and seven civilians; and the Administration Supply and Distribution Division with three military and six civilians. The department was given operational control of the U. S. Army Aviation Digest with one military and six civilians and the Graphic Arts with three civilians.

ACCOMPLISHMENTS:

The contract for printing the U. S. Army Aviation Digest changed from W. R. Bean & Son, Inc., Atlanta, Ga., to Foote & Davies of Atlanta. The April issue was the first under the new contract for Foote & Davies.

During 1969 the Digest's circulation continued to climb, reaching new highs of 62,615 in January; 62,822 in February; 63,143 in March; 63,173 in May; 63,985 in June; and an all time high of 64,326 copies of the September issue printed. The high in 1968 was 61,245 of the September issue.

While under the auspices of Department of NRI, the Literature Division was responsible for the following publications:

FM 1-80, Aerial Observer Techniques and Procedures.

ASubjScd 1-8, Aerial Observer Training.

ASubjScd 1-9, Accident Reporting, Records, and Investigation.

TT 1-65, Helicopter Operations From Amphibious Assault Ships.

ST 1-100-2, Army Aviation Common Subjects.

TM 1-225, Navigation for Army Aviation.

ATP 1-47, Aviation Company, Separate Infantry Brigade (TOE 1-47).

ASubjScd 1-14, Airspace Control Element of the Tactical Operations Center-Division, Corps and Army.

ATT 1-47, Aviation Company, Separate Infantry Brigade (TOE 1-47).

FM 1-40, Attack Helicopter Gunnery.

TC 1-16, Employment of Aircraft Flares From Army Aircraft.

During the year the Correspondence Courses Division (Extension Division for the first three quarters) revised the following publications:

AVN Subcourse 3 - Army Aircraft and Principles of Flight, March

AVN Subcourse 6 - Weather Elements, Reports, and Forecasts, February

AVN Subcourse 15 - Common Subjects Subcourse 212- Army Aviation, March.

AVN Subcourse 23 - Army Aviation Special Operations, March

AVN Subcourse 25 - Airmobile Operations, January

AVN Subcourse 26 - Aviation Field Exercises, February

AVN Subcourse 20 - Aircraft Maintenance, May

AVN Subcourse 27 - Aircraft Accident Prevention, April

AVN Subcourse 29 - Helicopter Operations from Amphibious Assault Ships, April

AVN Subcourse 76 - UH-1 General Familiarization, June

AVN Subcourse 2 - Employment of Army Aviation, July

AVN Subcourse 5 - Designation, Characteristics, Weight and Balance of Army Aircraft (ENL MOS 71P - Flight Operations Specialist), August

AVN Subcourse 21 - Communications, July

AVN Subcourse 4 - Weather Elements, November

AVN Subcourse 16 - Army Aviation in the Theater Support Command, October

AVN Subcourse 17 - Staff Organization and Procedures, December

AVN Subcourse 9 - Administration and Logging of Flight Time (Enlisted MOS 71P - Flight Operations Specialist (Coordinator)), October

AVN Subcourse 59 - Fuel and Oil Service, November

AVN Subcourse 75 - Tactical Map Reading, November

ALLIED MILITARY TRAINING

MISSION:

The Allied Military Training Division is responsible for the administration, processing, and transportation of all allied students in the area of Rotary Wing, Fixed Wing and Maintenance Training, including maintenance of records, pay vouchers, academic reports, course certification, home country correspondence and legal matters. In addition, Allied Military Training Division orients and educates students pertaining to the history and background of the United States and establishes with the student a close relationship with the US personnel.



Major General Douglas Vincent, Chief of the Australian Embassy, Washington, D.C., is given a briefing on the aspects of variances in fixed wing variable-pitch propellers by a DAC Instructor Pilot. MG Vincent came to Ft Rucker in April for special fixed wing training. As Embassy Chief, MG Vincent is tasked with the responsibility for the administration and guidance of all Aussie military students in the U.S. for training.

ORGANIZATION:

Effective 1 September, the Allied Military Training Division was transferred from G1/2 to the Office of the Secretary, USAAVNS.

The following trip tours were embarked upon by allied students as part of the program to educate them with the various aspects of the United States:

1. 10 July - Trip to Tallahassee, Florida, to visit area Universities and historical sites.
2. 8-10 August - Traveled to Atlanta, Georgia, for tour of State Capitol Building, Grant Park, Stone Mountain and a general tour of the city.
3. 29 August - 1 September - Visit to St Augustine, Florida, including Fort Castillo de San Marcos and bay and marina areas. Tours included Ripley's Believe It or Not Museum and the restored old town.

The following is a breakdown of Allied Officers and Enlisted Men who completed training under various programs during Calender Year 1969:

<u>COUNTRY</u>	<u>OFFICERS</u>		<u>ENLISTED MEN</u>		<u>TOTAL</u>
	<u>COURSE</u>	<u>NO. OF STUDENTS</u>	<u>COURSE</u>	<u>NO. OF STUDENTS</u>	
Australia	R/W	8			8
Austria	R/W	2			2
Belgium	F/W	1			1
Canada	R/W	1			1
Ceylon			R/W	1	1
China	R/W	8			12
	F/W	4			
Colombia			Maint	1	1
Ethiopia	R/W	3	Maint	7	13
	F/W	3			
Germany	R/W	11	R/W	14	25
Greece	R/W	4	Maint	5	11
	F/W	2			
Indonesia	R/W	2			4
	F/W	1			
	Avn Med	1			
Iran	R/W	13			15
	F/W	1			
	Maint	1			
Jordan	R/W	4	Maint	6	10
Korea	R/W	16	Maint	3	28
	F/W	2			
	Maint	7			
Laos	R/W	3	Maint	4	7
Nicaragua	R/W	5			5
Norway	R/W	1			1
Spain	R/W	4	Maint	1	5
Thailand	R/W	37	Maint	37	74
Turkey	R/W	22	Maint	2	24
Vietnam	R/W	<u>73</u>		<u> </u>	<u>73</u>
TOTALS		240		81	321

4. 17 - 19 October - Journied to Mobile, Alabama, for sightseeing of Bellingrath Gardens, historical sights, and the ship docks, including tours of the Battleship USS Alabama and the submarine USS Drumm.

5. 26 - 30 November - Outing to Huntsville, Alabama, for tour of NASA Space Museum, TV stations and historical sites. Enroute stops include tours of Montgomery and Birmingham.

6. 20 - 23 December - Excursion to Daytona Beach, Cape Kennedy, and Jacksonville, Florida. Itinerary included a visit to the Kennedy NASA Space Museum and Jacksonville Ship Docks.

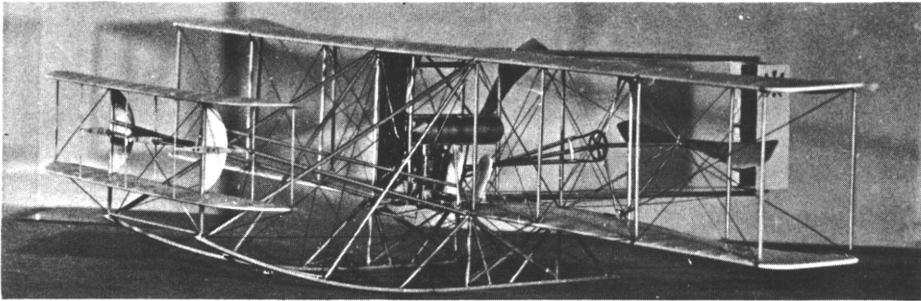
In addition to the above educational tours, on 5 October, the allied students were given an opportunity to view the 25th Annual Bonifay Rodeo in Bonifay, Florida, and on 11 November, the Veterans Day Parade in Enterprise, Alabama.

An activity initiated during CY 69 was the weekly attendance of two different students as invited guests of the Enterprise Kiwanis Club.

PERSONNEL:

On 27 July, MAJ Claude W. Lott, Jr, took over as Chief of the Allied Military Training Division, replacing MAJ Roy F. McMillan, who was reassigned to Fort Benning, Georgia.

ARMY AVIATION MUSEUM



First contracted military aircraft

ORGANIZATION:

CY 1969 marked the first year of operation for the Museum in its new location; an improved building of 19,000 sq ft floor space, with an outside display park of about the same area. Not only did the visitation figure of over 131,000 persons place the Museum fifth in attendance among the 59 Army Museums throughout the world, but acknowledges this facility's acceptance by the public as an educational and informative vehicle that tells the Army aviation story in an interesting format.

Among the major acquisitions during the year were:

YOH-6A "Cayuse", serial number 62-4213, was transferred to the Museum for permanent display by the Army Materiel Command. This helicopter won 23 world records, internationally recognized, more than any other aircraft in the history of aviation, plus three more records to be verified.

A R-4 Sikorsky helicopter, on long term loan from the Air Force Museum, was the first helicopter procured in quantity by the military in early 1943, and was the first to fly a medical evacuation mission and the first used in training Army helicopter pilots.

MG Robert R. Williams, Deputy Chief of Staff for Force Development, DA, presented a large scale model of the Army's first airplane, the Wright Brothers "Military Flyer" to the Museum collection. This model was accepted by MG Delk M. Oden, Commandant of the Army Aviation School in a formal Museum ceremony.

A large painting of Medal of Honor winner, CW2 Frederick E. Ferguson, was presented by the artist, CW2 Chester E. Jezierski, Army aviator of the same unit, at the Army Aviation Association of America annual (AAAA) convention in Washington. The painting, which depicted the aerial battle action for which CW2 Ferguson was commended, was accepted by MG George Beatty, Deputy Commandant, Army Aviation School.

The 27th anniversary of Army Aviation was celebrated in the Museum by a "birthday party" on 6 June. Cakes and punch were prepared by the unit mess halls and served to over 1,000 visitors by ladies of the local AAAA Chapter in the Art Gallery/lounge. This celebration was so successful that there is a possibility of this becoming an annual function.

Another building consisting of 19,000 sq ft of floor space, was assigned to the Museum for expansion of displays and storage. Approximately one half of the building will be used for displays and is scheduled to be opened to the public in the Spring of 1970. Historical properties stored in two other buildings located in various on-post places, were consolidated for storage in the other half of this building in order to comply with Army regulations regarding security of Museum items. The two empty buildings were released to other activities.

The Museum Complex now consists of two adjacent buildings and an outside display park, (approximately 38,000 sq ft building space and 25,000 sq ft outdoor space), with the entire area enclosed in a security fence as required by Army regulations.

The Museum shops, staffed with one civilian carpenter and an average of five enlisted mechanics, completely restored four Museum aircraft and constructed a number of displays, display cases, and performed maintenance and preservation on all Museum aircraft and displays. The Instructional Support Division of the Department of Maintenance Training ably assisted in some of the aircraft restoration work.

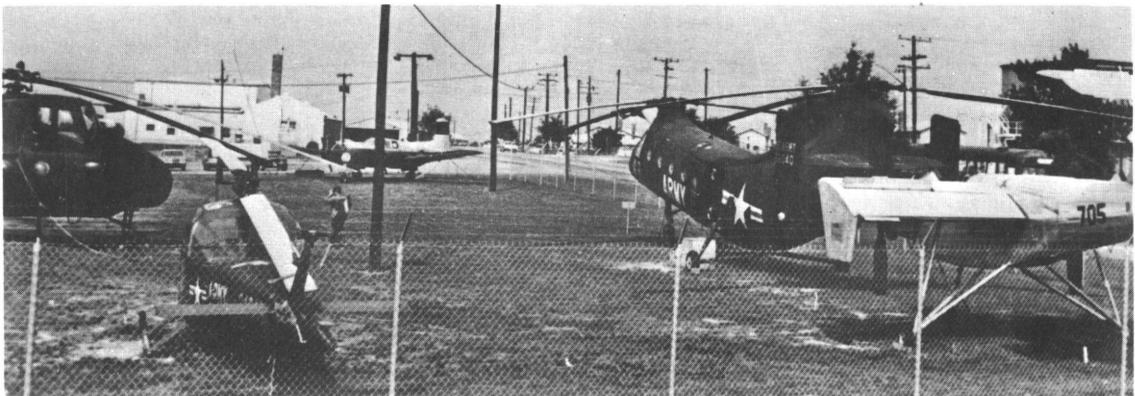
Security, as required by Army regulations during visiting hours for the Museum, was recognized by the CONARC Manpower Survey Team and ACofS, G1. Enlisted men were assigned to provide this security. This support permits the Museum to maintain a seven-day schedule without excessive civilian compensatory time, and provide proper security.

The Museum Curator and other members of the Museum staff presented several talks, accompanied by color slides on Army aviation history, to various civic, Rotary and Lions clubs in the surrounding community, and to troop units at scheduled training periods. Over 125 groups consisting of VIP's, civic and social clubs, school children and Aviation School classes were given tours by Museum guides.

The Museum public relations program was expanded during the year to acquaint as many people as possible with the Museum.

Mr. W. A. Howell, Museum Curator, appeared in a 15 minute TV program, and tapes were made for the surrounding radio stations. The PAO prepared and submitted numerous newspaper releases to the media on special events and new acquisitions, directing public attention to the Museum.

During the latter part of the year plans were instituted which considered the establishment of a new National Army Aviation Museum.



Outside display area of Aviation Museum

OFFICE OF DOCTRINE DEVELOPMENT, LITERATURE AND PLANS

UNIT HISTORY:

The Office of Doctrine, Development, Literature and Plans (ODDL&P) became an organization on 1 September, incorporating military and civilian staff originating from divisions in the Department of Tactics and Department of Publications and Nonresident Instruction, (DP&NRI).

Events that led to the creation of ODDL&P include staffing guidelines in DA Pamphlet 616-558, December 1967; a CONARC manpower survey of 1968; and a compendium of decisions of the Assistant Commandant relative to past and future responsibilities.

Nucleus of the current ODDL&P began in 1964 with the organization of the Studies, Research and Analysis Division, DOT, which later (1968) evolved into the Studies, Literature and Analysis Division and then the Doctrine, Development, Literature and Plans Division. The civilian staff originates in the Literature Division, DP&NRI (now DNRI).

MISSION:

ODDL&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.

Included in its responsibilities, ODDL&P publishes manuals and training aids covering survival, escape, evasion, avionics, electronics, communications, aerial surveillance, attack helicopters, airmobile operations and various other Army-wide subjects.

ORGANIZATION:

On 10 October, LTC John H. Phillips became the new director replacing LTC W. L. Denend who became Deputy G3, USAAVNC.

The two ODDL&P divisions were headed by LTC Curtis S. Crouch, Jr (Doctrine, Development & Plans) and LTC Austin W. Hathcock (Literature).

Manpower stringency during the period of organization aggravated ODDL&P filing and typing workloads and continued at yearend to plague the backlogs created by priority suspenses and organizing the newly acquired classified files from the Department of Tactics.

PERSONNEL:

<u>AUTHORIZED</u>	<u>ASSIGNED</u>
17 Off	16 Off*
1 EM	7 EM
11 DAC	10 DAC

*Plus one Australian liaison officer.

ACCOMPLISHMENTS:

On 16 October, ODDL&P Officers LTC William L. Denend, MAJ Jay B. Bisbey, MAJ Earl B. Burley, with MG George S. Beatty, Jr., Deputy Commandant, USAAVNS, serving as chairman, gave a US Army Aviation Community presentation entitled "Airmobile '79" to the Army Aviation Association of America at its annual meeting at the Sheraton-Park Hotel in Washington, D. C. The theme centered around the doctrinal and materiel equipments required to support airmobile operations within the next two decades; and to impress industry with the urgency for research efforts in this area. The panel discussion that followed included panel members from all Class II activities at Fort Rucker: Colonel Howard I. Lukens, USACDCAVNA; Colonel Eugene B. Conrad, USABAAR; Colonel O. H. Sheppard, USAAVNTBD; LTC A. D. Price, USAARL; and LTC R. A. Gonzales, USAHUMRRO. Since the concepts and materiel requirements of the presentation and the panel discussion represented those of the entire Army aviation community, the "Airmobile '79" manuscript has been sought after by numerous military agencies and industrial firms throughout the United States, and by some foreign countries.

A classified study, "Army 75" was developed by the USACDC Institute of Advanced Studies, to determine how the Army will fight, will be equipped, and how it will be organized to perform all the Army missions in 1975. The office of DDL&P participated in the development of the "Aviation 75" concept study, an integral part of this major effort, which will be used to identify materiel objectives and requirements for aviation systems and/or major items of equipment during the specified time frame. The DDL&P project officer was MAJ Cline G. Cook, who was assisted by MAJ Sylvester A. Berdux, who has since departed for the C&GSC at Fort Leavenworth, Kansas. Both officers attended the CONARC review conference at Fort Monroe and participated in the development of the CONARC input to the "Army 75" study.

In December, the Office of DDL&P provided a representative, LTC Austin W. Hathcock, as a member of the US delegation to the 11th Meeting of the NATO Military Agency for Standardization, Air Board's, Air Transport Working Party. Standardization agreements (STANAG's) and draft STANAG's were revised, and information was exchanged between the NATO nations on subjects pertinent to air transportation. LTC Hathcock was appointed co-chairman of the Helicopter Transport Operations Subcommittee and gave a 45-minute presentation on recent developments in the areas of landing zone clearing devices, tactical (rapid) refueling, fog dissipation, and the continuous ladder for the CH-47. Two draft STANAG's, "Helicopter Day and Night Formation Flying" and "Helicopter Tactical Refueling," were prepared by this office and presented to the subcommittee by LTC Hathcock. The drafts were accepted by the working party with a few minor changes.

On 17 December, Mr. Philip M. Drumheller, received a \$165 suggestion award resulting from his work simplification refresher training in May.

In December, Mr. Wyatt T. Burkett, Jr., received the outstanding performance award for service during the period November 68-November 69.

CHAPTER 3



USAAVNC/S SUPPORT UNITS

USAAVNC MEDICAL DEPARTMENT ACTIVITY (MEDDAC) (Provisional)



ORGANIZATION:

During CY 69, the overall health of the military personnel and their dependents at the USAAVNC was judged to be excellent.

The daily average beds occupied by military personnel at US Lyster Army Hospital was 31.4 as compared to 42.4 for the previous quarter. The daily average number of sick call visits decreased from 230 to 226.

The daily average beds occupied by dependents at US Lyster Army Hospital was 44.7 as compared to 34.4 for the previous quarter. The daily average number of outpatient visits increased from 643.9 to 663.

The daily average occupied beds at US Lyster Army Hospital decreased from 76.8 last quarter to 76 at year end; however, the daily average of out-patient treatments increased from 873.9 to 889. First quarter daily average was 84.2.

Dental patient treatments increased from 20,270 the previous quarter to 24,152 this quarter. First quarter treatments totaled 20,560.

In November Dental Clinic Number 1 was designated as the dependent dental clinic. Only dependents and retired military personnel receive routine treatment at this facility. Previously this group had been divided alphabetically into three groups and each group had received treatment at a different dental clinic. This new operation makes dental care for dependents and retired personnel more convenient and also increases the efficiency and effectiveness of the dental service and management records.

On 24 March, the Department of Psychiatry and Neurology together with the Psychiatry Clinic moved from Lyster Army Hospital to the old hospital area.

Medical Department Activities underwent an Annual General Inspection during the period 19-23 May and was awarded an overall rating of "Excellent."

Medical Department Activities underwent a Third US Army Annual Medical Technical Staff Inspection 13-15 October. No overall rating was awarded.

US Army Medical Department Activity received a superior rating as a result of the Third US Army Command Maintenance Management Inspection. The Third US Army Certificate of Merit was sent to Commanding General, Fort Rucker, for presentation to the Medical Department Activity on 21 November.

The following reserve units spent two weeks on the dates indicated at US Lyster Army Hospital for their annual active duty training.

The 3343d U.S. Army Hospital (100 Beds) from Mobile, Alabama consisting of 10 officers and 68 enlisted men and commanded by LTC Wm P. Claughton, MSC, 1-14 June.

The 354th Medical Dispensary from Jackson, Mississippi, consisting of 3 officers and 15 enlisted men and commanded by Major H. V. Pittman, Jr., DC, 1-14 June.

The 306th Medical Company (Clearing) from Nashville, Tennessee, consisting of 5 officers and 107 enlisted men and commanded by CPT Ronald C. Marston, MSC, 14-28 June.

The 302d Medical Detachment (Surgical) (KA) from Nashville, Tennessee, consisting of 2 officers and 3 enlisted men and commanded by CPT Harold W. Jordan, MC, 14-28 June.

The 323d Medical Detachment (DPS) from Memphis, Tennessee, consisting of 2 officers and 3 enlisted men and commanded by COL Wm H. Jolly, DC, 14-28 June.

The 588th Medical Detachment (Surgical)(KA) from Memphis, Tennessee, consisting of 2 officers and 3 enlisted men and commanded by MAJ Joe L. Wilhite, MC, 14-28 June.

PERSONNEL:

COL Wayne R. Otto, MC, arrived for duty 3 July, and assumed command of US Lyster Army Hospital, became Director, MEDDAC and Post Surgeon, replacing COL Quitman W. Jones, MC who was transferred to Medical Service Agency, USA Combat Development Command, Fort Sam Houston, Texas. A Change of Command Ceremony was held at the hospital 7 July.

While assigned to Fort Rucker, COL Quitman W. Jones, Hospital Commander went TDY to the following activities:

Attended a Medical Symposium and a Course on Operational Air Medical Problems at Brooks Air Force Base, San Antonio, Texas, 1-7 February.

Attended the AMEDD Instructors Conference at the Medical Field Service School, Brooke Army Medical Center, Fort Sam Houston, Texas, 31 March through 2 April.

Attended the 40th Anniversary of the Aerospace Medical Association in San Francisco, California 2-10 May. On the 7th of May the Society of US Army Flight Surgeons was formed to professionally aid and assist Army Aviation. COL Jones was elected first President by the membership with LTC James E. Hertzog, a former staff member of US Lyster Army Hospital and now CO, US Army Hospital, Fort Wolters, Texas, elected Vice-President and President Elect.

COL Wayne R. Otto, MC, US Lyster Army Hospital Commander and LTC Hazel V. Honeycutt, ANC, Chief, Nursing Service, attended the Third US Army Surgeons' Conference at Fort McPherson, Georgia 12-14 November.

In addition, two Medical Corps and three Dental Corps officers attended professional discipline meetings.

ACCOMPLISHMENTS:

During the year two Medical Corps officers took and passed medical board examinations.

The following personnel were given a briefing and tour of hospital facilities while visitors at Fort Rucker:

On 18 March, LTC Edwin C. Jordan, MC, Chief, Anesthesia and Operative Service, Fort Campbell, Ky, and Professional Consultant in Anesthesiology to the Third United States Army Surgeon.

On 27-28 February, COL William Rhodes, MC, Deputy Surgeon, CONARC on an orientation visit.

On 17-20 March, COL R. Bernstein, MC, Director, Plans, Supply and Operations, OTSG, accompanied by COL R. H. Shamburek, MC, Chief, Aviation Branch, made an orientation visit to the hospital.



COL Elizabeth P. Hoisington, Director, Womens Army Corps, visited Ft Rucker on 13 February for the purpose of reviewing the many WAC activities on post. Here she is shown with WAC medical personnel during a tour of the Lyster Army Hospital.

COL Shamburek remained at the hospital until 20 March for meetings with the hospital commander, COL Quitman W. Jones, COL Harold R. Chappell, CO, USAH, Fort Stewart, LTC James E. Hertzog, CO, USAH, Fort Wolters, Texas, and LTC William H. Hark, Staff Officer, Aviation Branch, OTSG, for discussions, anticipated goals and actions within Aviation Medicine.

On 17 April, Dr. Patrick C. Sheer, Jr., Third USA Civilian Consultant in Surgery.

On 23-24 April, COL Albert J. Bauer, MC, Third US Army Surgeon was here for a general orientation.

On 17 June, MAJ Ernest D. French, MSC, Plans and Operations Branch, Third USA Surgeon's Office, inspected the reserve units here for two weeks active duty training, 14-28 June.

On 18 June, LTC Richard F. Bliss from 121st ARCOM, Birmingham, Alabama, was here to inspect the reserve units on active duty training in the hospital 14-28 June.

On 15 July, LTC Paul C. Smithey who assumed the duties of ACofS, G1, visited US Lyster Army Hospital for a briefing on USAAVNC Medical Department Activities.

On 16 July, General William C. Westmoreland, Army Chief of Staff, while at Fort Rucker for a briefing on the latest training activities and command management, visited US Lyster Army Hospital and presented the Silver Star for gallantry to a hospitalized Alabama soldier. PFC Morris W. Pitts, Elkmont, Alabama, distinguished himself in action against the enemy in Vietnam, where the General was Allied Commander-in-Chief before his present assignment. General Westmoreland visited with other Vietnam returnee patients.

On 7 August, COL Frank F. Carr, Deputy to Commanding General, having assumed this duty this past July visited the hospital for a briefing on USAAVNC Medical Department Activities.

On 11 August, MAJ George Joseph Hayes, Neurosurgeon, Secretary, Health and Welfare DOD, Washington, D. C., made a liaison visit to the hospital.

On 25 August, CPTs James W. Price and Fred H. Soland, Jr, Sanitary Engineers, Department of Environmental Health, TUSA Medical Laboratory, arrived for five days TDY to conduct an Industrial Hygiene Survey on Post.

On 28 August, COL Richard D. Kisling who assumed the duties of ACofS, G4, in July, visited the hospital for a briefing on USAAVNC Medical Department Activities.

On 2 September, COL William C. Butz, MC, Commanding Officer, TUSA Medical Laboratory, was TDY at the hospital for two days on a routine liaison visit.

On 4 September, COL Mary F. Morse, ANC, TUSA Chief Nurse, visited for a general orientation.

On 18 September, LTG Albert O. Conner, TUSA Commander visited General Hamilton B. Howze, (Ret) a patient in US Lyster Army Hospital.

On 2 October, MG Benjamin Evans, Deputy Commanding General, TUSA on a command visit to Fort Rucker visited the hospital for a briefing on USAAVNC Medical Department Activities.

On 20 October, The Deputy Surgeon General, BG Spurgeon H. Neel, Jr, was the guest speaker at the Army Aviation School on 21 October. While at the hospital, General Neel presented the Army Commendation Medal to CPT Theodore A. Margwarth, ANC assigned to US Lyster Army Hospital, and to SFC William E. Hughes assigned to 427th Medical Company (Amb).

On 24 October, Dr. George Johnson, newly appointed Health Officer for Alabama counties of Dale, Houston and Henry, visited the hospital to meet the new Commanding Officer and to discuss mutual assistance.

On 31 October, COL Anna Mae Hays, Chief of the Army Nurse Corps, accompanied by COL Mary F. Morse, Nurse Advisor, TUSA and LTC John B. Garlick, ANC, Nurse Training Coordinator, Directorate of Personnel and Training, Office of the Surgeon General, visited Fort Rucker for a general orientation of US Lyster Army Hospital.

On 1 December, CPTs Gerald R. Bearce, MSC and Clifford R. Bradon, MSC and Mr. David N. Staples, DAC, of the US Army Environmental Hygienic Agency conducted a Noise Pollution Abatement Survey at Fort Rucker during the period 1-5 December.

On 10 December, Dr. Joseph A. St Louis, Jr, TUSA Civilian Consultant in Ophthalmology, Atlanta, Georgia, visited US Lyster Army Hospital in connection with Ophthalmology Service activities.

USAAVNC SPECIAL TROOPS and HEADQUARTERS COMMANDANT

MISSION:

The USAAVNC Special Troops primary mission for the CY 69 was to provide the operational personnel and services to the Commanding General, the primary and special staffs, and to the Army Aviation School for the proper maintenance and operation of the Aviation Center/School; also, administration, training, and control of all assigned personnel of USAAVNC Special Troops.

ORGANIZATION:

On 20 January over 700 enlisted men and 20 officers were transferred from USAAVNS Regiment to USAAVNC Special Troops and attached to duty sections within the unit.

On 1 October, USAAVNC Special Troops was assigned responsibility for Casual Company from USAAVNS Regiment. Personnel housed in Casual Company comprise the following:

Arrivals to Fort Rucker in AWOL or DFR status from CONUS or overseas units

National Guard or Army Reserve Troops on post for training

Troops awaiting decisions on application for hardship, dependency or various administrative discharges or for compassionate reassignment.

The Crash and Rescue Section officially became a separate company on 1 October and was dropped from USAAVNC Special Troops and attached to 83d Engineer Battalion. They were designated the Firefighter Company (Provisional).

PERSONNEL:

LTC Thomas B. Daly, Commander of USAAVNC Special Troops, ended his tour in June and was succeeded by LTC Jack D. Kincaid.

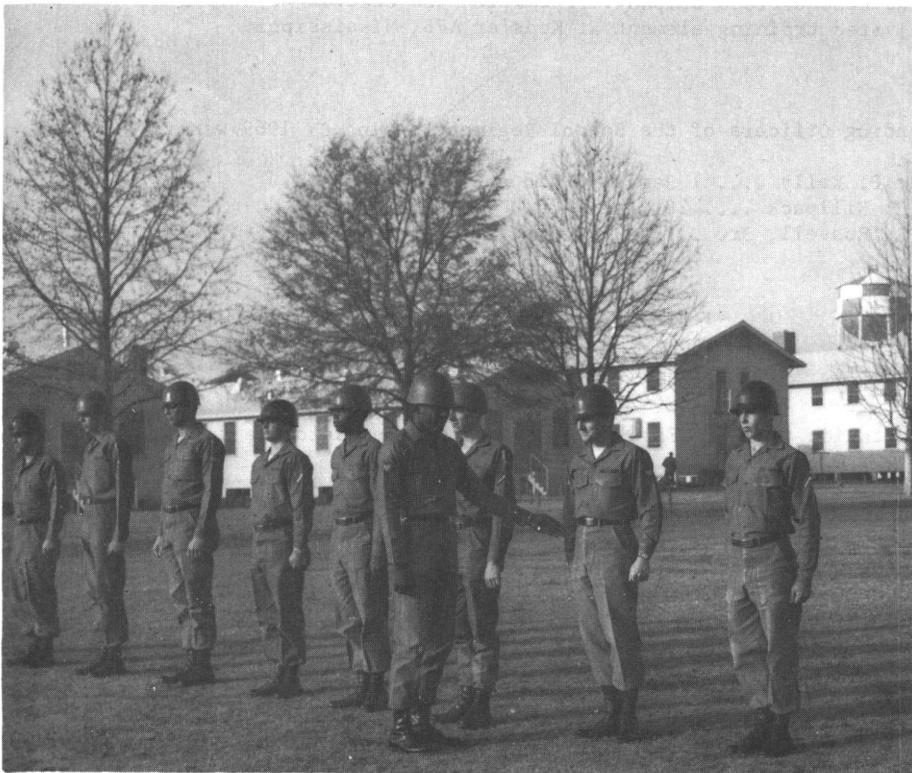
ACCOMPLISHMENTS:

In CY 69, the 98th Army Band performed at 49 parade ceremonies; 47 WOC, Student Officer, and NCO Academy graduations; 63 band concert formations; and functioned as a stage band on 38 occasions. The 98th Army Band has also appeared on the "Fort Rucker Presents" program with WTVY-TV on numerous occasions.

The 123d Ordnance Detachment (EOD) responded to 28 incidents and over 25,783 items were disposed of during this time period. Four EORA classes were taught at the Mississippi Law Enforcement Training Academy. 123d Ordnance Detachment also provided the explosive display during the simulated rocket attack put on for Armed Forces Day, plus two Secret Service Support missions.

The following individuals were selected as USAAVNC Special Troops Soldier of the month:

January	SP4 Joseph A. Kamalick	HHC
February	SP4 Gerald C. Coppersmith	Technical Support Company
March	SP4 Henry J. Mak	HHC
April	PFC Roy P. Mays	HHC
May	PFC Ronald B. Purtle	Technical Support Company
June	PFC Bruce E. Brown	Technical Support Company
July	PVT Michael R. Kane	HHC
August	PVT Craig R. Folk	141st MP Company
September	PFC Robert C. Frantz	HHC
October	PFC David A. Devouton	141st MP Company
November	SP4 Donald S. Jecusco	141st MP Company
December	SP4 Daniel K. Pierce	HHC



USAAVNC Sp Trps Guard undergoes Inspection

UNITED STATES ARMY AVIATION SCHOOL REGIMENT

HEADQUARTERS

ORGANIZATION:

The Regiment underwent reorganization processes several times during the year in an attempt to keep pace with personnel and administrative responsibilities.

Another Battalion was activated in December 1968 and designated as the 4th Battalion (Enlisted Student) (Provisional) with operations beginning in January 1969.

Two new companies were organized during the year. They are the 7th Enlisted Students Company and Headquarters Company. Formation was enacted to help absorb personnel from the deactivated training element at Keesler AFB, Mississippi.

PERSONNEL:

The Commanding Officers of the School Regiment during CY 1969 were:

COL George P. Kelly 1 January - 28 June
COL Paul E. Killpack 28 June - 20 December
COL Earl L. Russell, Jr. 20 December

1st BATTALION (Provisional) (Staff & Faculty)

ORGANIZATION:

The 1st Battalion (Staff & Faculty)(Prov) is divided into the following companies:

Headquarters and Service Company
Regimental Support Company
1st School Support Company
2d School Support Company
Airfield Company
Headquarters Company

Ground work was begun in CY 69 for formation of a new Airfield Support Battalion, expected to be institutionalized in 1970.

1st Battalion assumed the responsibility of providing funeral details throughout the Southeastern United States. They were called upon approximately thirty times in CY 69.

Eight members of 2d School Support were selected as Soldier of the Month in CY 69.

On 27 January, Headquarters and Service Company had its annual IG inspection and received an "Excellent" rating.

On 28 January, Regimental Support Company received its IG inspection with an overall rating of "Superior".

There was a change within the structure of the 1st School Support when the Department of

Specialized Aviation Training was formed on 27 October, removing operational responsibility for Air Traffic Control, Aeromedical Education Training and Warrant Officer Career Development.

The Battalion received an overall rating of "excellent" on the annual IG inspection.

PERSONNEL:

First Battalion Commanders during the year were:

LTC James H. McWhorter 2 October 1968 - 25 April 1969

LTC Howard E. Brown 26 April - 6 November

LTC Joseph H. Poole 7 November

CPT Frank T. Stankus became the Adjutant on 21 July, replacing CPT Timothy L. Cornish who became Training Officer.

MAJ John A. Smith replaced MAJ Robert E. Weathersby as Commanding Officer of Headquarters and Service Company in a change of command ceremonies on 10 December.

During the year Regimental Support Company had three changes of command and three First Sergeants. They were: MAJ Dan C. Kingman, MAJ J. W. Kuppich, Jr, CPT Boyd King, and 1SG Donald Wrinkle, 1SG Billy D. Mitchell and 1SG C. F. Crisp.

MAJ Robert D. Arrington assumed command of the 2d School Support Company from CPT Robert J. Dormon on 23 June.

1SG Thomas C. Meridith replaced 1SG James B. Stuart as 2d SSC First Sergeant on 31 March.

On 12 October, 1SG Robert W. Smith assumed duties of First Sergeant of the Airfield Company.

3rd BATTALION (Provisional)
(Enlisted Students)

MISSION:

To provide command and control, logistics, administration and military justice pursuant to assigned and attached enlisted students during their training process.

ORGANIZATION:

The 3d Battalion (Prov), consisted of the following units in CY 69:

1st Enlisted Student Company

2d Enlisted Student Company

4th Enlisted Student Company

US and Allied Force personnel serve in the Bn in an "Advanced Individual Training capacity; and upon graduation are awarded MOS 67A10 (Aviation Maintenance Apprentice. All students initially report to the 1st ESC for basic processing prior to commencement of training. They are then assigned to either the 2d or 4th ESC for appropriate training.

When initially assigned to 1st Enlisted Student Company awaiting assignment to a class, which may take one to three weeks, students undergo briefings, orientations, Class III

Flying Physical Examinations, occasional aptitude tests (for individuals qualified for application to Officer Candidate School or Warrant Officer Flight Training), and perform many duty details throughout Fort Rucker.

On 1 October, the Enlisted Student Casual Company was reassigned from 3d Bn to Special Troops, USAAVNC, and redesignated as Casual Company

The 1st Enlisted Student Company underwent an AGI on 20 March and received a rating of excellent.

PERSONNEL:

LTC Robert M. Moulthrop turned over command of the battalion on 14 June to LTC Robert W. Michel. LTC Donald D. Wilkes replaced LTC Michel on 20 December.

MAJ Donal J. Mascia assumed duties as executive officer from MAJ Jon M. Clark on 6 October.

CSM Owen D. Wilkins replaced CSM R. L. Bass as command sergeant major in March.

CPT Charles E. Magaw, commander of 2d Enlisted Student Company for eleven months, became Special Projects Officer (S2/3/4) 17 September.

CPT John L. Wonder served as adjutant until 10 August, when he was replaced by CPT Eduardo Yates.

Midyear command changes in the 2d ESC included the replacement of CPT Charles E. Magaw by MAJ Cline G. Cook as Commanding Officer. First Sergeant Robert A. Sayre remained as First Sergeant throughout the year.

CPT John D. Diggs assumed command of the 1st Enlisted Student Company from CPT James M. Montgomery on 17 September.

Battalion strength in December was 16 officers, 128 enlisted permanent party, and 1547 enlisted students. Strength varied constantly, depending on expiration of service, overseas assignment, elimination from the courses of instruction, etc.

Personnel turnover for the 4th ESC included a unit gain of 38 permanent party and a loss of 32 permanent party personnel throughout the year. This included the transfer of four different Company Commanders and four First Sergeants.

Effective 1 October, 1st Enlisted Student Company assumed strength and accounting responsibility for all enlisted personnel assigned both to the staff of 3d Bn (Enl Stu) (Prov) and to Consolidated Mail Room # 1. These personnel, formerly included on the Morning Report of Enlisted Student Casual Company, were entered on 1st Enlisted Student Company's Morning Report upon the reassignment of Casual Company from the 3d Bn (Enl Stu) (Prov) to Special Troops.

From 1 January to 1 September an average of 34 enlisted men weekly were transferred to Keesler Air Force Base, Mississippi for the purpose of attending Air Traffic Control Course, 93B20. As of 1 September, the 1st Enlisted Student Company stopped shipping enlisted men to Keesler Air Force Base, Mississippi; since 16 October all Air Traffic Courses have been conducted at Fort Rucker, with an average class strength of 19 men weekly.

4th BATTALION (Provisional)
(Enlisted Students)

ORGANIZATION:

The 4th Battalion (Enlisted Students)(Prov) consists of the following companies:

3d Enlisted Student Company
5th Enlisted Student Company
6th Enlisted Student Company
7th Enlisted Student Company

The following is an organizational breakdown of the 4th Battalion including mission requirements and operations:

On 9 December 1968, the 4th Battalion (Enlisted Student)(Provisional) was activated by General Order Number 106, with the mission to provide command, control, logistics, administration, and military justice for all assigned and attached personnel. The commanding officers since activation have been LTC Rupert F. Glover, 12 December 1968 to 13 June; and LTC James E. Moore, 14 June to 6 January.

On 23 January, the 4th Battalion assumed control of the 3d Enlisted Student Company, the 5th Enlisted Student Company, and the 6th Enlisted Student Company. At this time, however, the 6th Enlisted Student Company was inactive and at zero strength. It was filled by taking the 93D, 67M, and 51M classes from the 5th Enlisted Student Company. This amounted to approximately 250 people and reduced the 5th Company to a strength of about 300. On 16 October, the 7th Enlisted Student Company was activated under the 4th Battalion; they have only ATC Students - tower operators, en route controllers, and GCA operators.

The 3d Enlisted Student Company furnishes administration and logistic support for personnel attending the 67N20 course (UH-1 Helicopter Repairman) and 67A1F course (Helicopter Door Gunner). Among personnel attending these courses are U.S. Navy personnel and personnel from allied countries such as Turkey, Columbia, South America and Thailand. To date, approximately 4,400 students have processed through this unit. During the past year, the unit has had two commanding officers, CPT Carson G. Suber, 23 January to 13 June and CPT Bradley H. Petersen from 14 June to present. In March, July, and October, the 3d Enlisted Student Company was awarded the 4th Battalion Best Unit Award. In March the unit was awarded the Post Reenlistment Award for the highest overall reenlistment rate during that month. In April it received a certificate of appreciation for outstanding cooperation with the Red Cross Blood Program. Specialist Edward S. Paulk was chosen as the Post Soldier of the Month for May.

The 6th Enlisted Student Company provides logistic and administrative support for United States and allied personnel attending the 93D20 (Flight Simulator Specialist), 67M20 (OH-13/OH-23 Helicopter Repairman), and 67V2T (OH-58 Helicopter Repairman) courses. To date, approximately 1,120 students have processed through this unit. This unit had two commanding officers during the past year; CPT Gregg W. Woodard, 23 January through 14 April; and CPT John W. Finlater, 15 April to 5 January 1970. During the annual IG inspection, the 6th Enlisted Student Company was noted for its outstanding performance and appearance. In April, the Post Food Service School was conducted in the 6th Enlisted Student Company Mess Hall. During August and November, personnel from the 6th Enlisted Student Company won the Regimental Soldier of the Month award and the 4th Battalion award for April through November. In April, May, June, and August, the unit was chosen as Best Unit within the 4th Battalion. In June, the 6th Enlisted Student Company was noted as the best marching unit in the Regimental Parade. They earned the Post Best Mess Award for the month of August.



53d AVIATION BATTALION (CBT)

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 Artillery
Company E, 30th Infantry
72d Aviation Company (Air Traffic Control)
108th Quartermaster Company (Petrol Support)
416th Transportation Company
Marksmanship Detachment (Provisional)

PERSONNEL:

Personnel status throughout the year was as follows:

	<u>1st Quarter</u>		<u>2d Quarter</u>	
	<u>OFF</u>	<u>EM</u>	<u>OFF</u>	<u>EM</u>
Authorized	93	1418	84	1435
Assigned	83	1096	70	1634

Commanding officers for CY 69 were:

LTC Jack H. Dibrell - 1 January - 3 June
LTC E. V. Hoey - 4 June - 31 December

Command Sergeant Majors for the year were:

CSM George Hamill - 1 June 1968 - 31 July 1969
CSM Edward Collins - 1 August - 6 October
CSM Jimmy Reed - 6 October -



HEADQUARTERS & HEADQUARTER COMPANY

ORGANIZATION:

On 24 January the Company underwent, and successfully passed, its annual IG inspection.

During the year, the Company conducted a modified training program consisting of two six-month training cycles. Included in the program were 204 mandatory training hours plus 30 hours of additional subjects to be chosen by this unit from a list of 37 instruction hours.

On 12 August a CMMI inspection was conducted and successfully passed.

On 20 September the Company participated in a full scale NACIT alert and moved to the field with other units in the Battalion.

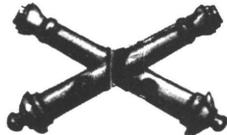
PERSONNEL:

In February, CPT George S. Walker replaced CPT Warren R. Tanner as Company Commander. CPT Walker was replaced on 24 October by CPT Robert E. Jones, Jr.

1SG Billy R. Parker assumed the duties of First Sergeant in September.

Personnel status of Headquarters and Headquarters Company as of 31 December is as follows:

	<u>Authorized.</u>	<u>Accountable</u>	<u>Operating</u>
Officer	16	15	15
Warrant Officer	3	4	4
Enlisted Men	106	157	157



BATTERY H, 18th ARTILLERY

MISSION:

The primary mission of Battery H is support of tactical training of the USAAVNS. Additional responsibilities include defense of key facilities, miscellaneous support of the USAAVNC, the providing of emergency leaves and support of domestic operations, plus advanced individual training of National Guardsmen.

ORGANIZATION:

On 25 October, Battery H participated in 53d Aviation Battalion organizational day activities, including a parade and artillery demonstration.

On 14 January, the Battery had its annual General Inspection, accruing an overall grade of superior and received a letter of commendation from the Battalion Commander.

On 13 August, the unit completed its Command Maintenance Inspection and received a satisfactory rating.

PERSONNEL:

Unit personnel authorization on 31 December was seven officers and 91 enlisted men; compared to 31 December 1968 when the authorization was for eight officers and 115 enlisted men.

Battery H commanders for CY 69 were:

CPT John Tyler - 27 November 1968 - 10 January

CPT Larry K. Brewer - 10 January - 17 December

CPT Gerald P. Bijold - 17 December -

ACCOMPLISHMENTS:

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

2 April - 21 gun salute and 50 gun retreat in honor of the late Gen Dwight D. Eisenhower, who passed away on 28 March.

4 July - 50 gun salute to commemorate Independence Day.

16 July - 19 gun salute in honor of Gen William C. Westmoreland, Chief of Staff, United States Army.

Battery H mess personnel participated in the Hurricane Camille disaster relief force sent to Gulfport, Mississippi to assist citizens of the stricken area.



COMPANY E-30th INFANTRY
5th Infantry Detachment (Pathfinder/Airborne)

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:

On 1 March, the Company was involved in Nuclear Accident Incident Alert (NAIC), called by the 53d Aviation Battalion. This alert was in practice for the Third Army Nuclear Accident Incident Alert which was held on 15 March. Company E supplied a security platoon for both missions.

Company E received a CMMI during April and the unit was given an average rating.

On 7 May, the Company presented a full size Air Assault to visiting dignitaries. The presentation included demonstration of how an infantry unit is picked up and transported in to a "hot landing zone". The demonstration was repeated later in Armed Forces day.

During the last week of June the 5th Infantry Detachment (Pathfinder/Airborne) commanded by CPT Joseph C. Parconz was attached to Company E.

On 18 July, Company E was chosen as the Honor Company for the arrival of Army Chief of Staff General William Westmoreland; and also served as color guard for the welcoming ceremony.

On 5 August the Company received a satisfactory rating in a TUSA CMMI.

On 27 September, the unit was alerted for a NAICP exercise. Company E supplied a 50 man security platoon plus two Pathfinder teams.

The unit participated in Ceremonies commemorating the third anniversary of the Organization of the 53d Aviation Battalion on 5 October. The organization day activities were held on the Division Parade ground on 5 October. During this time various units of the Battalion set up displays of the equipment used during their respectable operations. Company E set up a static display of infantry weapons and provided answers to questions.

On 15 December the unit successfully passed its annual IG inspection.

During the year the combined efforts of Company E, 30th Infantry and the 5th Infantry Detachment accounted for over 1200 student training requirements as well as continual mandatory training.

PERSONNEL:

Company E commanders for CY 60 were as follows:

CPT Donald F. Matson, Jr - 1 January - 30 January
CPT Donald W. Wallace - 30 January - 20 August
CPT Robert H. Schulz - 20 August -

Company E First Sergeants were:

1SG James S. McIntyre - 1 January - 31 January
SFC Robert L. Mulkey - 31 January - 23 June
MSG John C. Schwartz - 23 June - 23 October
1SG Richard E. Giffard - 23 October -

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

	<u>Authorized</u>	<u>Accountable</u>	<u>Operating</u>
Officer	9	7	6
Enlisted Men	245	282	262



416th TRANSPORTATION COMPANY

ORGANIZATION:

In September and October the unit trained National Guardsmen for qualification in the following MOS's:

- 63A10 - Automotive Maintenance Apprentice
- 64A10 - Light Vehicle Driver
- 64B20 - Heavy Vehicle Driver
- 70A10 - Clerk
- 76A10 - Supply Clerk

The company had a total of 25 accidents in 1969. There were 17 personal accidents and eight vehicle accidents. The personal accidents were all minor in nature.

There were two fires during the year. The first one was started when two men were transferring fuel from one tanker to another tanker. The second one was when a man fell asleep in bed while smoking. Both fires were minor in nature.

On 9 and 11 June this company had its Operational Readiness Test. The Company received a favorable rating.

In September, the Company operated the Rifle and Machinegun Ranges for the Battalion.

The unit underwent the annual IG on 10 December.

PERSONNEL:

Company commanders during the year were:

- CPT John Holverson - 1 January - 15 February
- CPT Charles V. Long - 15 February - 13 December
- CPT Sydney L. Barnes - 13 December -

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

	<u>Officer</u>	<u>Warrant Officer</u>	<u>Enlisted Men</u>
As of 1 January 1969	5	1	143
As of 31 December 1969	5	1	198

In October the Company gained 47 enlisted men either back from Vietnam or aviation mechanics who were scheduled for Vietnam, but whose orders were changed. The Company steadily increased in strength since July.

ACCOMPLISHMENTS:

The Company was involved in two community actions this year. The first one was in Gulfport, Mississippi, after Hurricane Camille destroyed that town. The Company sent 37 cooks and other personnel to help the people of that stricken area.

The second community action was Operation Santa Claus. This Company was designated in charge of operations. The men collected toys from nearby areas and repaired them. Once they were repaired they were distributed to the needy children. CPT Charles V. Land, Company Commander, made a personal appearance on television asking for contributions of repairable toys. SSG Herschel Grimes and SP5 Charles Shadell received Letters of Commendation from LTC E. Val Hoey, Battalion Commander, for their efforts in the operation.

In July the Company supplied drivers and vehicles to refuel the aircraft on the Tac sites due to the cancellation of the civilian contracts. This process was known as "Operation Gas Can" and lasted about a week. Four hours after being notified, all Tac sites were being operated by members of this Company.



108th QUARTER MASTER COMPANY
(Petrol Support)

MISSION:

The mission of the 108th QM Company is to provide refueling service and support for rotary wing aircraft, both of Fort Rucker and transient origin. Besides the mission of School/Center service, the area of support includes extended coverage to include Fort McClellan, Alabama; Eufaula Airport, Alabama and Eglin Air Force Base, Florida.

ORGANIZATION:

The annual IG inspection took place on 16 December and the Company received an overall rating of excellent.

The CMMI took place in February, with the unit judged to be excellent overall.

PERSONNEL:

The following is a breakdown of personnel in CY 69:

	<u>Officer</u>	<u>Enlisted Men</u>
Authorized strength as of 1 Jan	5	180
Assigned strength as of 31 Dec	5	225

Commanding officers for CY 69:

CPT Dieter H. M. Troster - 1 January - 10 April
CPT Donald D. Turner - 11 April - 11 August
CPT Van B. Quick - 12 August

In March, 1SG Starling V. Cooper retired and was replaced as First Sergeant by 1SG James G. Woodard.

ACCOMPLISHMENTS:

In August the Company sent vehicle and manpower to the Gulf Coast of Mississippi in the wake of Hurricane Camille.

The Third Operating Platoon participated in the production of an Army Training Film for Fort Lee and Fort Eustis, Virginia. This took place during September and the film was on the concept of rapid refueling operations. This unit also began training reservists during the month of September. This on the job training was integrated into this company's mission and was quite successful.

1st AVIATION COMPANY

MISSION:

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

ORGANIZATION:

This unit participated in Operation Hurri Vac in rendering immediate aid to the victims of Hurricane Camille. The company also sent cooks and kitchen equipment to aid the Red Cross in the feeding of the disaster victims.

PERSONNEL:

Personnel status as of 31 December is as follows:

<u>AUTHORIZED</u>				<u>ACCOUNTABLE</u>				<u>ACTUAL</u>			
EM	OFF	WO	CIV	EM	OFF	WO	CIV	EM	OFF	WO	CIV
409	11	4	2	483	11	6	1	483	11	6	1

During the period 1 January through 31 December there were 680 gains and 577 losses.

During the year the Company experienced a critical shortage of personnel in the following MOS: 05B20, 35K20, 36K20, 67A10, 64A10, 93H20, and 93J20.

Commanding officers for CY 69 were:

MAJ William E. Towers - January - February
MAJ James W. Searcy - February - June
MAJ Joseph J. Shaute - June - September
MAJ Benjamin B. Powell, Jr. - September -

72d AVIATION COMPANY
Air Traffic Control

ORGANIZATION:

In May, the units name was changed from the 72d Air Traffic Control Company to the 72d Aviation Company (Air Traffic Control). The unit also received a change in mission, its first since leaving Fort Benning, Georgia, in 1967. A major change came through adaption of HUB Control which greatly enhances the units combat readiness with the responsibility of aircraft enroute control.

The 72d Aviation Company was also given sole responsibility of the post ammunition storage area detail.

On 18 January the unit underwent its annual IG inspection, receiving a satisfactory report.

On 5 August the annual TUSA CMMI occurred, with the unit registering 73% in maintenance and 80% in operations.

On 17 December the Company underwent its second annual IG inspection of the year, receiving an overall rating of satisfactory.

PERSONNEL:

Breakdown of personnel assignments as of 31 December:

	<u>Officer</u>	<u>Warrant Officer</u>	<u>Enlisted Men</u>	<u>Total</u>
Structure Strength	30	0	192	222
Authorized Strength	21	0	156	177
Actual Strength:				
As of 1 January	9	1	131	141
As of 31 December	2	3	180	185

The only MOS shortages as of 31 December was in the 05C MOS. (Radio Teletype Operator)

Company commanders:

MAJ John C. James - 1 January - 28 May
CPT Thomas R. Birch - 29 May - 21 October
CPT Donald L. Flohe - 22 October -

83d ENGINEERS BATTALION (CONSTRUCTION)

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 Theatre. 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 areas, athletic fields, storage areas for gas, supplies and ordnance troop housing, hospitals, and general post improvements and rehabilitation was effected at Orleans, La Rochelle, 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 1968, the main body of the unit was relocated at Fort Riley, Kansas, while remaining under operational control of CINCUSAREUR and still retaining its commitment to NATO for crisis oriented operations.

While at Fort Riley, the 83d 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.



ORGANIZATION:

The 83d Engr Bn officially made Fort Rucker their home on 19 July when the first train, consisting of 76 cars, arrived.

On 28 July, MG Delk Oden officially welcomed the unit during a ceremony at the Headquarters Parade Field.

In October, an intensified training program was instituted to provide initial training of newly assigned, unqualified personnel and to provide NCO's refresher training.

PERSONNEL:

On 30 September, battalion strength was at 75% of authorized level; however, assignment of personnel increased authorized strength to 88% by 31 December.

Battalion Commanders during CY 69 were:

LTC Frederick P. Reynolds 1 January - 24 June
LTC Stanley Forbes 25 June

Command Sergeants Major for the year were:

CSM Theodore R. Winters 1 January - 17 July
MSG Bernard Binford 21 July - 4 August
CSM Derald Bolin 4 August



MG Delk Oden, post commander, officially welcomes LTC Stanly R. Forbes, commanding officer, 83d Engineers Bataillion (Construction), on their arrival to Ft Rucker from Ft Riley, Kansas, on 28 July.

ACCOMPLISHMENTS:

The 83d Bn was responsible for the completion of the following projects at Fort Rucker during CY 69:

Construction of POL and paint sheds.

Construction of dispatch shacks; Disassembly and assembly of metal building.

Construction of the Battalion Headquarters parking lot.

The construction of bulletin boards for the Battalion.

Fence disassembly and assembly.

Improvement of Faulkner Road.

Improvement of Tac-X and Tac-1 sites.

Improvement of the gunship range.

Construction of an earth-filled dam.

Repair of the following ranges:

Range 6

Tower Range

Hammond Range

Blacksmill Range

Longstreet Range

Clearing trees at Hatch Airfield.

Clearing of ditches on post streets and roads.

Aircraft accident recovery in support of the Aircraft Accident Investigation Board.

Tank Hill Road relocation and improvement.

STUDENT AVIATOR BATTALION (PROVISIONAL)

ORGANIZATION:

The battalion underwent reorganization in October with an S4 authorized within headquarters. This was done to alleviate the responsibilities of the consolidated supply and the consolidated messhall from the individual companies within the battalion.

The battalion, under a new TDA, was authorized a Command SGM. SGM Gunn was assigned to the battalion on 1 December and was promoted the 11th of December to CSM.

The battalion congratulated ISG Stinson and SFC Wells on their retirement after twenty years of service in the Army.

PERSONNEL:

LTC Denzel L. Clark assumed command of the Battalion on 25 April, replacing LTC Charles D. Fountain, who was reassigned to Office Deputy Chief of Staff, Logistics, Washington, D. C.; On 25 October, LTC R. C. Potter assumed command.

CPT Robert G. Ross, Jr., was assigned as Adjutant, replacing 1LT Kenneth J. Meirs, who was released from active duty.

1st WOC Company:

MAJ Calvin B. Chandler was assigned as CO in October, replacing MAJ Dale W. Pierce, who was reassigned to RVN.

2d WOC Company:

MAJ Anthony Clemente was assigned as CO in October, replacing MAJ Synda B. Allen, who was reassigned to GI.

3d WOC Company:

ISG Winston D. Hornsby was assigned as First Sergeant on 2 May, replacing ISG William K. Vellon who transferred to School Regiment.

MAJ Allen A. Bresette assumed command on 15 June. MAJ Alex L. Allen, the former commander, was reassigned for duty with the Department of School Support.

4th WOC Company:

MAJ Ernest L. Isbell became CO on 5 March, replacing MAJ David C. Ammons.

On 22 August, MAJ Isbell relinquished command to MAJ Joseph L. Kulmayer.

ACCOMPLISHMENTS:

On 11 May, the battalion received the Minuteman Flag from the Treasury Department for the third time for its participation in the Savings Bond Program.

The battalion graduated 3328 Warrant Officers during the year, most of whom were

reassigned to RVN. The remainder received Army-wide assignments.

The battalion graduated 5061 officer students, the breakdown as follows:

F/W Initial Entry	463
F/W Transition	901
R/W Initial Entry	1517
R/W Transition	2180

During the year the battalion underwent two Inspector General inspections. The battalion finished both inspections with an excellent rating.

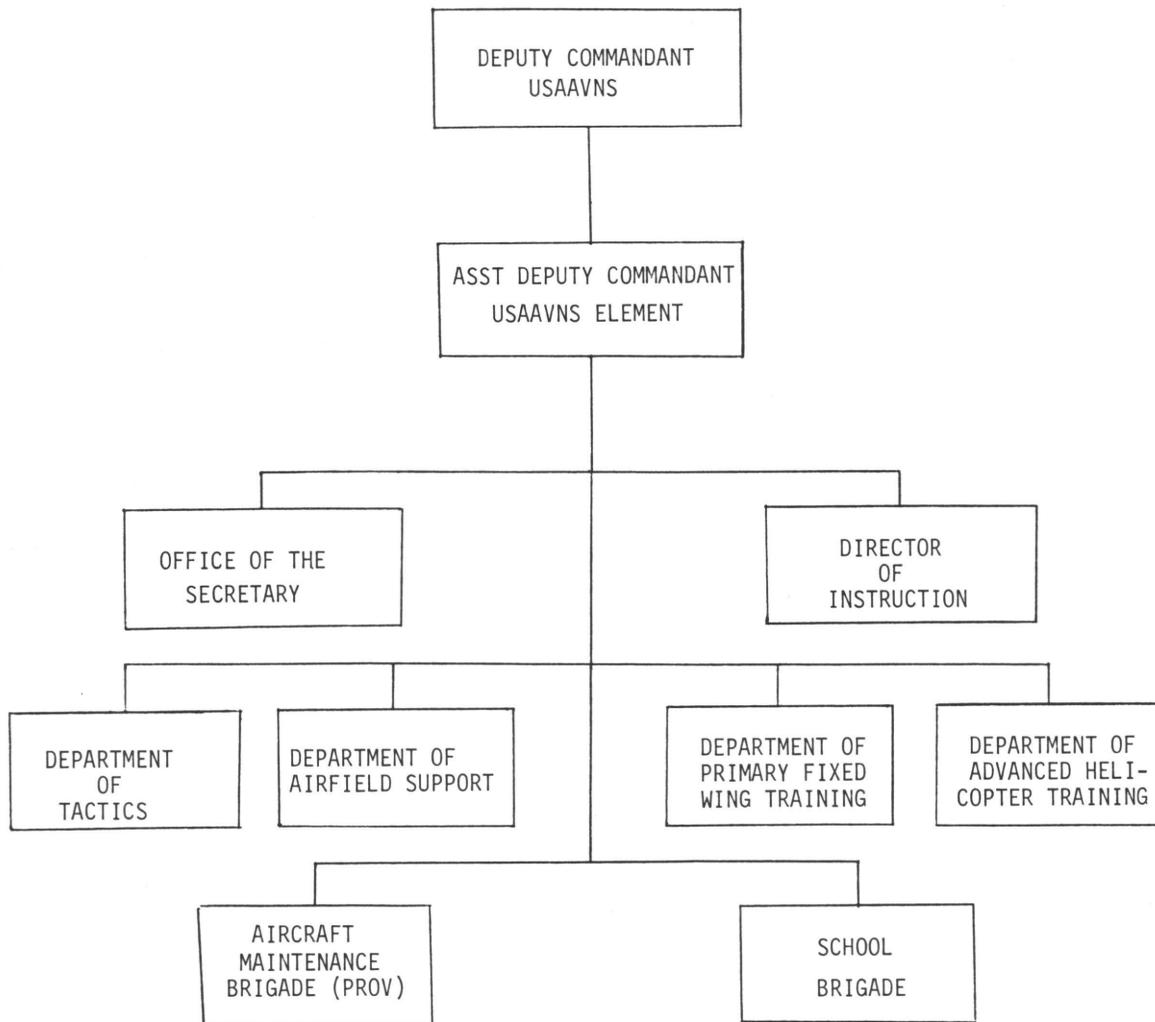
CHAPTER 4



USAAVNS ELEMENT

Ft Stewart/Hunter AAF, Georgia

UNITED STATES ARMY AVIATION SCHOOL ELEMENT
ORGANIZATIONAL CHART





MAJOR GENERAL GEORGE S. BEATTY, JR.

DEPUTY COMMANDANT, USAAVNS

USAAVN SCHOOL ELEMENT SECRETARY

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 February 1969, Major General George S. Beatty, Jr., 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, replacing Brigadier General Frank Meszar who was reassigned to the First Cavalry Division Airmobile as Assistant Division Commander. On 1 October 1969, General Beatty was promoted to Major General, United States Army. The following personnel occupied key positions as of 31 December 1969:

Assistant Deputy Commandant - Colonel James D. Kidder

School Secretary - Colonel Ted A. Crozier

Director of Instruction - Colonel DeRosey C. Cabell

CO, School Brigade - Colonel Norman W. Paulson

CO, Aircraft Maintenance Brigade - Colonel Keith J. Bauer

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

Director, Department of Tactics - Colonel Robert S. Kellar

Director, Dept of Airfield Support - Colonel Dale W. Taylor

Acting Dir, Dept of Advanced Helicopter Training - Lieutenant Colonel William A. Roehl

Organization and Personnel:

On 20 March the Safety Division was transferred to the United States Army Flight Training Center and Fort Stewart TDA in accordance with recommendations of the CONARC Manpower Utilization Survey conducted 13 May-7 June 1968.

Key Personnel for USAAVNSE as of 31 Dec were:

School Secretary: Colonel Ted A. Crozier

Assistant School Secretary: Lieutenant Colonel Albert H. Roughen

Chief, Administrative Division: Major Jimmy Wilkie

Chief, Visitor/Protocol Division: Captain Walter W. Davis, Jr.

Chief, Registrar Division: Major Roland Sevigny

Chief, Resource Management Division: Major Louis F. Palumbo

Chief, Aircraft Accident Investigation Board: Lieutenant Colonel Chapman C. Norton.

ADMINISTRATIVE DIVISION

The Reproduction Branch showed an increase in the last half of the year of over a half million copies in processing of work orders. It is anticipated that Allied Military Training requirements will necessitate a 200% increase in the workload of this branch during the early part of 1970.

The Technical Library Branch has a total collection of 24,274 items, approximately one-half of which are military publications.

The Flight Records Branch inprocessed 6,048 and outprocessed 5,505 personnel flight records during 1969. The quarterly average of flight records maintained by the Flight Records Branch was 3,029.

VISITOR/PROTOCOL DIVISION

During 1969 coordination was effected for a total of 16,322 visitors to Hunter Army Airfield including 144 general officers. This division escorted 41 tours for 1,273 adults and 483 children from the civilian community. The official functions were 47 breakfasts, 49 luncheons, 8 dinners, and 25 graduations and graduation dinners. Quarters were furnished for 847 people for a total of 1,905 overnight accommodations.

REGISTRAR DIVISION

As of 31 December the total number of student aviators graduated from the Rotary Wing Aviation Course at Hunter Army Airfield and from the Fixed Wing Course at Fort Stewart since their inception is 9,044.

RESOURCE MANAGEMENT DIVISION

During the first quarter of the year a new Command Management Center was completed in the US Army Aviation School Element headquarters building at Hunter Army Airfield.

The Management Branch reviewed and updated the functional statements, organizational charts and TDA's for each department within the USAAVNS Element. Major changes were effected only in the Department of Primary Fixed Wing Training with the other departments requiring only minor revisions.

In accordance with directives from higher headquarters and the current DA austerity program, added emphasis is being placed on the application of better management techniques. As monitor of the Army Programs within the USAAVNS Element, the Management Branch continued to stress cost reduction.

During the last quarter the Budget Branch met with personnel from the Fort Rucker and Fort Stewart Comptrollers' offices regarding formulating course costs for Allied Military Training.

AIRCRAFT ACCIDENT INVESTIGATION BOARD

The Board investigated 38 accidents during 1969. Rotary Wing aircraft were involved in 27 accidents and Fixed Wing aircraft in 9 accidents investigated for this installation. Two other accidents investigated involved aircraft from Fort Bragg, North Carolina, and Fort Eustis, Virginia. These figures indicate an increase of 6 accidents over 1968.

DEPARTMENT OF AIRFIELD SUPPORT

Ogranization:

During the reporting period, several contractual engineering projects were completed. The resurfacing and repainting of both Wright AAF and Evans Heliport were finally completed. Contractual problems and weather were the primary-causes for the delays experienced. Work is continuing to progress on the rotary wing stagefields; however, no date has been announced as the completion target.

Considerable work has been accomplished in airspace actions:

The USAAVNS Element initially objected to the construction and operation of the Hopeton Plantation Airport because of safety considerations due to the location of the proposed airport in relation to one of our major stagefields. The FAA initially felt that since both operations would be conducted under VFR conditions only, that no real safety problem existed. At the insistence of the USAAVNS Element, interested members of the FAA and USAASO were invited to attend a full airspace meeting and an on-the-site inspection, during a normal training period. Based on this inspection and briefing, the FAA reversed their decision and determined that a safety of flight condition did exist. It is unknown at this time what other actions have been taken by the FAA.

Another airspace action in which the USAAVNS Element posed an objection was the airspace docket changing the dimensions of the transition area in both the Wright AAF and Savannah transition areas. Since SVFR operations cannot be conducted within the transition area outside of the control zone, any time the visibility went below 3 miles, our training operations could not be conducted above 700 feet. The FAA has acted quite favorably in that the transition area at Wright control zone has been deleted and a meeting will be held on 14 Jan 70 to reconfigure the Savannah transition area to allow the USAAVNS Element to continue the training requirements.

The FAA has proposed a nondirectional beacon approach at Statesboro. The USAAVNS Element has posed an objection to this in that again the transition area, when below 3 miles visibility, would hamper the training operations conducted by the Department of Tactics. No informal meeting has been scheduled by the FAA to date.

During the reporting period, the 93J MOS OJT training program was completed. A total of 86 students participated in the program and were fully POR qualified for overseas shipment. It is not anticipated that this program will continue in that Ft Rucker has taken over the entire training program and apparently have sufficient training sites available to complete the on-site training.

DEPARTMENT OF PRIMARY FIXED WING TRAINING

Organization:

Throughout 1969, the department conducted and supervised normal student training. During the year, 942 students were graduated from the three courses taught by the department, while flying 88,939 hours.

On 15 May the Department of Primary Fixed Wing Training was reorganized. This reorganization established the Fixed Wing Troop Command (Provisional), to which all the permanent party personnel and students were assigned, and which was placed under the command of the department director. Formerly, all permanent party and student personnel had been assigned to the 1st School Support Battalion and were not under the command of the department director. The addition of the Fixed Wing Troop Command (Prov) to the organization resulted in an increase of authorized personnel as shown:

	<u>Officers</u>	<u>Warrant Officers</u>	<u>Enlisted</u>	<u>Civilians</u>
Authorized prior to reorganization	52	35	8	45
Authorized after reorganization	80	30	37	47
Assigned on 31 December 1969	87	21	57	43

Key Personnel:

Department Director and Commander, Fixed Wing Troop Command (Prov): Colonel Robert R. Dobson

Department Deputy Director: LTC Ralph O. Benefield

Executive Officer, Fixed Wing Troop Command (Prov): MAJ James D. Poteat

Chief, Flight Training Division: LTC Edward H. Jenkins, 1-14 Jan 69; LTC Merrill T. Peterson, 15 Jan-12 Aug 69; MAJ James L. Killette, 13 Aug-31 Dec 69.

Operations Officer: LTC James D. Blauert, 1 Jan-12 Apr 69; MAJ Hugh B. Dillard, 13 Apr-23 Jul 69; LTC Kenneth M. Fritz, 24 Jul-31 Dec 69.

Chief, MOI & Eval Division: LTC Merrill T. Peterson, 1-14 Jan 69; LTC Nils B. Anderson, 15 Jan-31 Dec 69.

Chief, Academic Division: MAJ Thomas P. Hensler, Jr., 1 Jan-13 Apr 69; MAJ James R. McKimmey, 14 Apr-31 Dec 69.

OPERATIONS DIVISION

The reorganization of the division, which incorporated the Fixed Wing Troop Command (Prov) under the command of the director, was effective on 15 May. A closer working relationship was realized because of the singular command guidance and the development of similar SOP's within the divisions/units. This reorganization also effected some internal changes within the department which better facilitated mission accomplishment. The realignment of several branches and sections improved management and overall departmental efficiency.

Starting 1 July, the O/WOFWAC classes began arriving every two weeks and were scheduled to complete the Ft Stewart training in 14 weeks rather than the previously scheduled 16 weeks. The classes were reduced in size; however, the number of students in residence increased from 260 to 278.

During the year, 408 officers and 227 warrant officer candidates were graduated from the initial entry phase and sent to Ft Rucker, Alabama, for advanced training. Also, 267 students were graduated from the Fixed Wing Qualification Course, while 40 were graduated from the Vietnam Instructor Pilot Course. The department flew a total of 88,939 hours in the performance of this training.

SAFETY DIVISION

The aircraft accident rate for CY 1969 was 7.87 per 100,000 flying hours. The one minor and six major accidents occurred during the first five months of the year, with no accidents, major or minor, during the last seven months.

DEPARTMENT OF ADVANCED HELICOPTER TRAINING

Change of Command:

5 October - LTC William A. Roehl assumed command of DAHT from COL James D. Kidder.

May - LTC Alfred H. Kirchner assumed command of Instrument Flight Division B from LTC Gerald R. Beekman.

1 May - LTC Harold M. Bailey assumed command of A&ST Division from LTC Joel J. Williams.

12 October - LTC Dirick C. Overhamm assumed command of A&ST Division from LTC Harold M. Bailey.

13 October - LTC Harold M. Bailey assumed command of the Contact Division from LTC Henry J. Wilkins.



Change in Training Syllabus:

January 1969 - DAHT initiated an improved Launch and Recovery Plan for training aircraft. New pads were created for exclusive use by Contact Division. Separate traffic patterns were devised to compensate for the varied airspeeds of the TH-13T and UH-1 aircraft assigned to the Instrument Divisions. Maximum training time was conserved and a potentially hazardous situation was eliminated.

January - To meet the needs of aviators, demonstrations of techniques to handle tail rotor malfunctions were incorporated into the training syllabus. The instructor pilot executed the approach with pedals in a fixed position until within ten feet of the ground. A go-round was then made. As of August, the instructor was allowed to continue the approach to the ground. Student reaction to the demonstrations was enthusiastic and greater confidence in the aircraft was attained.

After modifications were completed on UH-1 aircraft to prevent possible systems failure, hydraulics-off landings were once again performed. The student was allowed to gain experience in actual hydraulics-off operation.

The tactical ADF approach was dropped from the training syllabus in May. Experience in Vietnam indicated that this maneuver was not practical. The five hours of academic instruction were reallocated to IFR subjects.

To recognize outstanding instructor pilots and to maintain a high quality of instruction, DAHT initiated the "IP of the Month" award. The award is based on performance of duties, student critiques, military bearing, appearance, length of time as IP, and inspiration to the students. The individual selected receives a trophy, and a letter of commendation in his 201 file. Instructor response to this award has been excellent and the program is running smoothly.

The Broken Wing Award was initiated during the previous calendar year and is still an active program. The award is made to a pilot for outstanding performance in preventing injury and further damage to an aircraft following a maintenance failure. A number of awards were presented to Instructor Pilots of DAHT during the past calendar year.

A number of awards were presented during this last calendar year that were earned during the previous calendar year. For the period February 1968 through January 1969, DAHT established an accident rate of 5.38 while flying a total of 204,000 training hours. This was well below the forecasted accident rate and DAHT was presented with a Certificate of Achievement by Third Army.

Contact Division reached the 100,000 flying hour level on 5 September. Branch I and II received a Certificate of Achievement for marked improvement in the accident prevention program. Ten aviators received 2000 hour safety awards.

Instrument Division A received a Bronze Safety Plaque for 66,000 accident-free flying hours from 1 July 1968 to 30 June 1969. As of August, the division had flown 127,283 hours and graduated 2,645 students.

Instrument Division B amassed over 65,000 hours of instrument training time and graduated 1,392 students from 1 January to 31 December. Twenty-seven instructor pilots received Certificates of Achievement for 2000 hours of accident-free flying. Since inception, Division B has flown over 115,000 hours and graduated 2,460 students.

Flight Standards Division was presented a Bronze Plaque for 12 consecutive months of accident free flying. This period was from September 1968 to September 1969 and totaled 19,300 flying hours. Eighteen instructor pilots received 2000 hour safety awards. Since inception, Flight Standards has flown 58,590 training hours and graduated 882 students.

AIRCRAFT MAINTENANCE BRIGADE (PROVISIONAL)

Organization:

The Aircraft Maintenance Brigade consists of the following units:

- 1st Aircraft Maintenance Battalion
- 2d Aircraft Maintenance Battalion
- 3d Aircraft Maintenance Battalion
- 4th Aircraft Maintenance Battalion
- 5th Aircraft Maintenance Battalion
- Headquarters and Headquarters Company
- Fixed Wing Maintenance Company

Organization of the Aircraft Maintenance Brigade remained unchanged. The mission changed during the year, however, in that the Commanding General, United States Army Aviation Center, Fort Rucker, tasked the United States Army Aviation School Element to increase the Operational Readiness of UH-1 aircraft from 63% to 75%. This allowed the Element to accomplish its mission with less aircraft, freeing a portion of the present UH-1 fleet at the Element for transfer to Fort Rucker in support of Foreign Military Training. Message AJRGT 93709 from Major General Oden, subject: Increased Operational Readiness to Support Foreign Military Training (FMT), 21 May, assigned this task. A plan to accomplish this task was submitted to the United States Army Aviation Center on 25 June. The Operational Readiness Plan describes the concepts, personnel, organization, equipment, and facilities required to attain an operational readiness of 75% for the UH-1.



The AGI for CY 69 was conducted from 22 September 1969, through 5 December. The Aircraft Maintenance Brigade received an overall rating of outstanding.

On 20 and 21 October, the Aircraft Maintenance Brigade gave an AH-1G maintenance briefing and supported a fire power display presented to 50 members of the Canadian Defense Staff. The Brigade briefing and support was commended by the Post Commander, MG George S. Beatty, Jr.

The following depicts the number of aircraft available as of 31 December:

TYPE	QUANTITY	AVERAGE HOURS FLOWN PER MONTH	AIRCRAFT GAIN OR LOSS AFTER 1ST QUARTER
C-45	1	55	-
C-47	2	366	-
T-41	7	599	-65
U-6	5	330	+ 3
U-8	1	44	-
AH-1G	47	2785	-
O-1	25	1845	-
TH-13	120	7877	-20
UH-1B	35	1951	-13
UH-1D	209	15,531	-11
UH-1H	8	306	- 2
UH-1	253	16,490	-

Personnel:

The Aircraft Maintenance Brigades personnel status as of 31 December was:

	<u>OFF</u>	<u>WO</u>	<u>EM</u>	<u>DAC</u>
Authorized:	69	67	2266	41
Assigned:	101	113	4371	37

On 1 February, LTC Lloyd A. Gimple assumed command of the 1st Aircraft Maintenance Battalion. B and C Companies transferred to the 2d Aircraft Maintenance Battalion; D Co of the 2d Bn transferred to the 1st Bn, and the 1st Battalion became a "UH-1D" Battalion. LTC Albert A. Johnson, Jr. assumed command of the 4th Bn.

On 17 February COL Keith J. Bauer assumed command of the Aircraft Maintenance Brigade from COL Orval H. Sheppard, who was reassigned to Fort Rucker, Alabama.

Also in February, LTC Harold T. Campbell became the Commander of the 2d Aircraft Maintenance Battalion, while LTC Walter J. Connell became the Commanding Officer of the 3d Bn. LTC Connell replaced LTC R. M. Straughan who became the S3 for the Aircraft Maintenance Brigade.

On 26 May, Major Jesse R. Joubert became Executive Officer of the 3d Aircraft Maintenance Battalion upon LTC Alfred Kirchner's reassignment to the Department of Advanced Helicopter Training. Captain Edward J. Shannon became Commander of Company G.

On 19 July, LTC Stuart F. Wilder became the Commander of the 1st Aircraft Maintenance Battalion.

SCHOOL BRIDAGE (PROVISIONAL)

Mission:

The mission of the School Brigade is to provide administrative, intelligence, training and logistical support to permanent party personnel and student body of the USAAVNS Element.

Personnel:

Personnel status as of 31 December 1969 Hunter/Stewart.

	<u>Off</u>	<u>WO</u>	<u>EM</u>	<u>CIV</u>
Authorized	26/40	4/5	141/622	26/12
Assigned	40/29	23/5	234/812	25/11

Key Personnel Changes:

The following key personnel changes took place during 1969:

<u>NAME</u>	<u>FROM</u>	<u>TO</u>
COL Eric A. Rundquist	CO, Sch Bde	Special Asst to Commanding General
COL Norman W. Paulson	Vietnam	CO, Sch Bde
LTC Teddy G. Holloway	CO, Stu Bn	DA
LTC Billy G. Sims	Ofc of Sch Secy	CO, Stu Bn
LTC Jeremiah B. Hawkins	CO, 2d Sch Spt Bn	XO, Sch Bde
LTC James A. Cox	Vietnam	CO, 2d Sch Spt Bn
LTC Edmund B. Bookman	CO, 267th Avn Bn	DOT
LTC Robert H. Carter	Dir, Employ Div, DOT	CO, 267th Avn Bn
LTC Robert H. Carter	CO, 267th Avn Bn	Vietnam
LTC William S. Perrin	DOT	CO, 267th Avn Bn
MAJ Clay N. Mobley	Vietnam	S3, Sch Bde
MAJ James P. Hunt	XO, Stu Bn	Chief, AMT

Accomplishments:

During the Armed Forces Day activities, elements of the 267th Avn Bn participated in a heliborne assault at Hunter Army Airfield. This was part of the demonstrations which were open to the public.

The 1st School Support Battalion was deactivated, losing two units - Airfield Company B and Headquarters & Service Company to the 267th Aviation Battalion, and one unit, the Officer Student Company, was attached to FW Troop Command.

The 2d School Support Battalion was officially formed under General Order Number 261, USAFTC & FS on 16 October commanded by LTC J. B. Hawkins.

All sections of Student Battalion have been preparing for the arrival of Vietnamese Officer Students in March 1970. Consideration has been given to their billeting, recreation, and entertainment. Changes in the training program, food service, billeting areas, and student club have been made in order to better facilitate these allied officers.

Allied Military Training Section of Student Battalion was activated on 12 October.

WOC Company D was deactivated 31 December.

Courses and Graduates During 1969

ORWAC	1240 (Including 216 USMC)
WORWAC	1394
Cobra Transition	1019 (Including 66 USMC)
IP	52
OFWAC	408
WOFWAC	226
Fixed Wing "Q" Course	275
O-1 IP	40
NGOFWAC	23

DEPARTMENT OF TACTICS

On 14 February, the Employment Division, Department of Tactics was redesignated as the Tactical Training Division. There was no change in the mission of the division.

In August, the department was required to begin preparation for implementation of the Allied Military Training Program. Throughout the remainder of the year necessary revisions of POI, lesson plans and support requirements were completed. Necessary training aids were requested and facilities required for support of training were reviewed for adequacy.

On 27 August, COL Robert S. Kellar became the Director, Department of Tactics vice COL Kevin F. Carrigan.

On 21 October, the Aviation Armament Division conducted an AH-1G firepower demonstration for 25 high ranking Canadian military officers. The demonstration was outstanding in every respect and earned many laudatory comments concerning the professionalism and competence of the members of the Aviation Armament Division.

Aviation Armament Division graduated a total of 1,019 students during 1969. MOI in-house graduates were 57 and CONARC IP graduates were 52. Aviation Armament flew 29,204 hours during the year with a 13.6% accident rate.

Tactical Training Division graduated a total of 2,845 students during 1969 and 101 MOI qualified Instructor Pilots. 80,888 hours were flown with a 2.47% accident rate.



DIRECTOR OF INSTRUCTION

EVALUATION DIVISION

During the past year CONARC changes to 20 Mar TDA for USAAVNS downgraded the position of Evaluation Division Chief from LTC to MAJ.

DOI has operated without the Flight Training Analysis Branch since 14 July. This means that a most important phase of flight quality control has been lost to the USAAVNS Element Commander and the Director of Instruction. A recent training evaluation visit by CONARC stated the lack of FTAB had major impact on the training mission and appears to require corrective action. It is felt that loss of this branch limits the ability of Evaluation Division in determining the true ability of instructor pilots within the training departments.

The Academic Instructor Training Branch conducted twelve, three-week Methods of Instruction Courses and graduated one hundred thirteen academic instructors to the academic sections within the Flight Training Center.

Three hours of academic MOI subjects were taught on seven different dates to DAHT and DOT flight MOI students. A presentation on Military Methods of Instruction was presented to several faculty members of the Savannah Vocational School. After this presentation the faculty had forty-seven Savannah Vocational Instructors attend a special two week Methods of Instruction Course which was presented at night after duty hours. Five Center School Briefings and five Community Service Briefings were given.

A three hour Methods of Instruction Course was presented to all flight simulator specialists. This presentation was well received and resulted in five spaces being reserved for link operators in each subsequent MOI Class.

Two hundred sixty-five academic evaluations were conducted by the evaluators in the branch.

The Outstanding Instructor Award Board, headed by a branch member, selected thirty-eight flight instructors and fifteen academic instructors for the year.

Twenty students from the training departments attended a one week Academic Instructors Supervisors Course in March.

Eight departmental instructors attended a five day Training Aids Workshop where their visual aids were upgraded.

One hundred twenty-six students attended four hours of instruction on how to use ITV.

An AITB representative visited the MOI Course at Maxwell Air Force Base which resulted in changing several of our MOI Course hours.

The Ad Hoc Committee, which was organized to coordinate the Allied Military Training Program, met with the training departments on three occasions.

A trip to Atlanta was made to obtain equipment needed for a learning center in AMT Program.

A representative from AITB attended the Foreign Military Training Conference at Fort Benning, Georgia, and visited the Foreign Liaison Officer at Fort Eustis, Virginia.

The Academic Training Analysis Branch conducted one hundred twenty-eight end of course critiques. Fifty-six incoming classes were briefed on examinations and grading. Fifty academic examinations were processed and published. Seven hundred eleven training aids requests were processed. Twelve evaluations were conducted of areas that received

excessive criticism in course critiques.

A trip was made to Fort Rucker to obtain procedures for approving, updating and filing academic examinations. A representative of the branch attended a Training Aids Conference at Fort Rucker.

CURRICULUM DIVISION

Plans Branch

During the period 1 Jan 69-31 Dec 69, this branch participated in many projects required to support the student training. These projects included such events as the acquisition of the Center/School briefing, and preparation for the conducting of allied military training. Calendar year 1969 saw an end to the AH-56 planning and also the beginning of a phaseout of US students so that allied students (Vietnamese) could begin active helicopter training for deployment in Vietnam.

A summary of events which were prominent in calendar year 1969 are as follows:

In January USAAVNS provided CONARC with the Advanced Resident Training Plan for training in the AH-56. This plan proposed a 12-week course of instruction consisting of transition, gunnery and tactical training. In addition, the plan envisioned the input of MOS trained enlisted personnel for on-the-job training and the deployment of platoon packets. Concept approval was not given at CONARC and a training proposal was forwarded to Dept of Army visualizing all unit training being conducted at another installation. Unit training includes gunnery, tactics and unit training up to deployment. Aviator training was programmed to commence in August 1970.

On 27-28 Jan a Plans Branch representative attended a conference at USAAVSCOM HQ to draft and review Interservice Support Agreements for the loan of 5 US Navy AH-1G (Hueycobra) aircraft to the Army for training USMC pilots. Three separate agreements covering the loan and maintenance support of the five aircraft were drafted and approved by agencies represented. The final Agreements were signed by appropriate authorities and the training of USMC pilots in the AH-1G is currently being conducted at USAAVNSE.

On 5 Feb after receipt of approved TDA 3AWOL8AA-01 Plans Branch was given responsibility for coordinating the preparation and submission of a revised TDA for the USAAVNS Element. The completed revision was required by G3, USAFTC NLT 18 Feb for review and submission to Third Army on 22 Feb. Section II, Personnel, reflected the results of the May-July 68 Manpower Survey. Section III-V, Equipment, identified all known requirements with complete justification for all additions to the approved TDA.

During the period 20-24 Jan, LTC Robert J. Anspach, Deputy Project Manager for Support 2.75" Rocket System, Picatinny Arsenal, who was team chief for the warhead, 2.75" rocket, fleschette, WDO-4A/A NETT, visited USAAVNS Elm. He conducted a presentation to instructor and student personnel in the AH-1G training program. LTC Anspach discussed the characteristics of the fleschette and technique of employment. LTC Anspach indicated that the new warhead should be utilized in AH-1G training for familiarization purposes. USAAVNS Elm requested the new munitions and has integrated its usage in the applicable POI's.

The Intensified Confirmatory Test of the AH-1G terminated 31 Mar. During the period 19 Sep 67-31 Mar, 62,337.9 maintenance man-hours were expended in support of 8,288.7 flight hours. During the test period, 75 periodic inspections and 119 intermediate inspections were conducted. The active-maintenance-man-hour-to-flight hour ratio was 7.52. The cost per flight hour to operate the AH-1G is \$156.68. The final inprocess review and final report submission was accomplished on 22 April at Hunter Army Airfield and the final report - Intensified Confirmatory Test of the AH-1G was submitted to CONARC on 19 May. The Test Plan for the Confirmatory Test of the AH-56A was prepared and

forwarded to CONARC, 20 Mar. CONARC has subsequently forwarded the plan to DA, USAMC and USACDC for approval.

During the period 1 April-30 June, the following plans were prepared and submitted to USAAVNC:

Resource requirements to support the transfer of WOFWAC preflight training from USAPHS to USAAVNS Element.

Resource requirements to support a two-week add-on maintenance and supply course for officer students.

Resource requirements to support Plan ROBAA (Classified).

Resource requirements to support Operation Standard Rating and Operation Specialization.

Advanced Resident Training Plan - AH-56A.

During the same time period, the following plans were submitted to USAFTC:

Annex I to USAFTC T-Day Plan (Classified).

USAAVNS Element Annex to USAFTC OPLAN 1-68 (Classified).

Reorganization of DPFWT to facilitate the assumption of command of all F/W aviation students by the Dir, DPFWT.

A revised Annex I to USAFTC OPLAN T-Day was submitted to G3, USAFTC on 29 July. This revision eliminated planning for AH-56A training and maintenance and assumed that direct support and general support maintenance for AH-1G aircraft would be provided by TOE units programmed under T-Day stationing plans. Additionally, all AH-1G training and maintenance was located at the Cobra Hall area.

At this same time, the revised Annex B to OPLAN HUREVAC was published.

Submitted FY 70/71 Training Requirements based on AMT mission to DOI. USAAVNS to be included in their submission to CONARC.

On 26 May, Plans Branch was discontinued and personnel were assigned to Plans/Programs Branch, Curriculum Div. Plans/Programs Branch was again divided into two separate units and Plans Branch was officially reestablished on 7 Oct. Major J. R. Hanson was assigned as the Chief of Plans Branch and Major J. L. Crowle retained his position as Chief, Programs Branch.

A letter was provided to ACofS, G3 to be forwarded to Mr. J. H. Miller, Hilton Head, South Carolina, explaining the procedures used for requesting military assistance in the event of a national disaster. ACofS, G3 was provided with a revised Annex B to OPLAN HUREVAC.

In response to an ACofS, G3 request, a review of the T-Day Plan was conducted and submitted.

CPT Emerson was assigned the duty of presenting the Center/School briefing. As a result of several noted errors, the briefing was revised and submitted to ACofS, G3 for acceptance.

The resource requirements for one-time expenditures needed to conduct Allied Military Training at Hunter Army Airfield was completed and submitted to Resource Management Division to be forwarded through channels to DA.

Programs Branch

The Programs Branch made recommendations and assisted the Management - Programming and Budget Division in reviewing and making appropriate cuts in the USAAVNS Element FY 69 budget. No reduction was made in flight hours or in any area that would adversely affect student training.

On 29 Aug, USAAVNS Element submitted a revised FY 70 Flight Training Program to USAAVNS based on the phaseout of active Army and initial rotary wing input requirements established in DA letter, DCSPER-SED, 4 Aug, subject: FY 71 Flight Training and CONARC message, ATIT-SAA 212102Z Aug, subject: Aviation Training Program for FY 70 and 71. The revision to the FY 70 Flight Training Program includes class flow charts, rated personnel requirements, aircraft requirements, and a revised flight hour program.

The Allied Military Training input figures have changed from the initial FY 71 Flight Training Program submission of 29 Aug. The number of students per class has been increased from 52 to 61 which changed the inresidence load from 390 to 427. A revised FY 71 Flight Training Program will be submitted in January 1970.

In accordance with the FY 70 Flight Training Program, the withdrawal of the TH-13 fleet is required with the phaseout of active Army initial entry rotary wing course and phasein of Allied Military Training. In CY 69, 44 of the fleet's 139 aircraft have been returned to USAAVNS.

During FY 70 the UH-1 fleet was scheduled to be reduced from 265 to 200 aircraft. A revision of the Allied Military Training Program, to be completed in January 1970, has temporarily postponed the withdrawal of UH-1 aircraft.

The USAAVNS Element has completed training 66 USMC aviators in accordance with the Interservice Support Agreement, 3 Feb. The USMC students were integrated into the AH-1G Pilot Transition/Gunnery Course starting 2 March and concluded on 2 Dec. Department of the Army and Navy are discussing the continuation of USMC AH-1G pilot training at the Element during FY 70-71.

Training Branch

Fixed Wing Qualification Course:

Syllabus was changed to increase flying time during weeks five, six, and seven and decreased in final week. Purpose of change was to recognize necessity for outprocessing and graduation, and to increase flexibility in the event of bad weather or holidays. Overall flying time was unaffected.

Annex A3 was changed to eliminate Programmed Texts that were more oriented toward helicopter flight than fixed wing. Academic hours were increased from 24 to 41. This increased the scope and content of instrument and weather instruction time.

AH-1G (Hueycobra) Pilot Transition/Gunnery Course:

Major changes were made in the POI during the year revising ammunition requirements in order to give more realistic instruction and training in new subsystems and munitions. Changes reflected more emphasis on 2.75 HE and 17 pound warheads with proximity fuzes.

Altitude at which Cobra gun-runs could be initiated was increased from 1000 feet to 2000 feet. This allowed more realism and a greater slant range for firing 2.75 rockets.

Officer/Warrant Officer Rotary Wing Aviator Course:

Tactical ADF training was eliminated from the POI. The Link Syllabus was also changed eliminating TAC ADF.

Approval was granted to DAHT to increase UH-1 transition flight periods from 1:30 to 1:45 hours with the stipulation that students not progress more than two days ahead of the program schedule. The increase was needed due to increased travel time to training facilities.

Servo-Off Training was resumed. Aircraft were modified for this resumption.

Officer/Warrant Officer Fixed Wing Aviator Course: Plans were finalized to commence a two-week flow. Two weeks of training time (12:30 Flight hours) were transferred from Phase II to Phase IV. Road and strip work are now conducted at Ft Rucker in the O-1 aircraft. Academic subjects transferred were Forms and Records (18 hours) and Map Reading (3 hours). POR requirements for M-16 and .45 cal. firing became the responsibility of USAAVNS.

Skill Development Base (SDB): The mutual support agreement for training 35K (Avionics Specialist) personnel between Ft Gordon and Hunter AAF which began 9 Sep 68 continued with classes of seventeen students receiving three weeks of training on fixed and rotary wing avionics equipment.

Troop Lift: The training agreement between Ft Gordon and Hunter AAF which began in August 1968 is scheduled to terminate in March 1970, due to phaseout of AIT training at Ft Gordon.

Systems Engineering: The systems engineering of fixed and rotary wing programs continued at Ft Rucker. The program ran behind schedule due to emphasis placed on completion of ATC program by CONARC and problems with personnel turnover and qualification of personnel within the Curriculum Development Groups (CDG's). DOT personnel completed the AH-1G portion of the Rotary Wing Program during the first two weeks of January 1970.

OJT for MOS 67Y, 45J, and 93J: OJT programs for MOS's 67Y and 45J were continued to alleviate the critical shortage of AH-1G maintenance technicians at USAAVNS Element. MOS 93J training terminated on 19 Dec 69.

Programmed Instruction: The Programmed Instruction (PI) Branch, Curriculum Div, USAAVNS is being phased out. USAAVNS Element requirements will be to monitor PI development and evaluate programmed texts, and to conduct instructor training in PI techniques. The instructional departments will maintain, revise, and update programmed texts for which they have proponency and develop programmed texts for subject areas where potential training benefits may be derived. DOI will send an MOI instructor to PI workshop at Ft Rucker.

Project Specialization: The DOI, USAAVNS was tasked to develop and conduct a test to qualify initial entry students in advanced aircraft; i.e. CH-47, AH-1G, OV-1, and U-21. USAAVNS Element has responsibility for AH-1G, OV-1, and U-21.

Fixed Wing: Eight students were selected for OV-1 training and eight for U-21 training. Students selected for OV-1 specialization were given 45 hours dual and 50 hours solo in 14 weeks of primary training. Those selected for U-21 specialization received 45 dual and 60 hours solo in 16 weeks of primary training. Problems were caused by lack of firm selection criteria and changes made after training had started. The OV-1 program concluded on 14 Mar and the U-21 program on 29 Mar with the following conclusions:

All required instruction was imparted to test students. Such instruction was sufficiently comprehensive to result in above average academic grades and approximately average flight grades.

Severe personnel turbulence was generated during the test by untimely receipt of requisite guidance. Such turbulence had an adverse effect on student morale.

AH-1G: Eight students were selected at Ft Wolters and began AH-1G training. Students received 70 hours dual and 10 hours solo in UH-1 aircraft and 25 hours in the Cobra. The course terminated on 25 Aug 69 with the following conclusions:

Personnel attending a course of this type should be identified as late as possible during the course at Ft Wolters to assure the selection of above average students.

Test results indicated that students with reduced flight training were capable of being successfully transitioned into the AH-1G.

Allied Military Training: Preparation began during the year to commence training of Vietnamese helicopter pilots beginning in March, 1970. Preparations included:

CONARC approval of POI, Officer Rotary Wing Aviator Course (UH-1) (VNAF) Oct 69 (Draft).

Submission of changes to CONARC reflecting additional munitions and academic requirements. CONARC approval received Dec 69.

OPERATIONS DIVISION

Scheduling Branch

During the first and second quarters of 1969, the Engineer, Crash Rescue Division experienced difficulty in meeting all of the stagefield commitments due to a shortage of trained firefighters. This problem was sporadic until late August, when the USAAVNS Element physically transferred 25 enlisted volunteers to USAG for duty as firefighters. Service has vastly improved. However, replacements have not been forthcoming through USAG channels and consequently another shortage is expected to occur after 1 Feb 70.

The individual student sports familiarization program was reinserted into the Flight Training period. This was done in order to shorten the student training day and was made possible when DAHT stopped bussing students to outlying stagefields. During the 3d quarter of CY 1969 the sports program was reduced to its current four sports, which are given in the first four weeks of flight training. This reduction was caused by a lack of funds and qualified instructors.

The shortage of operational buses, due to a high deadline rate, during the 4th quarter caused a frequent curtailment of requested student transportation. This problem was temporarily relieved by the reduction in student input. However, bus requirements will again increase in March 1970 with the start of the AMT program. The ACofS, G4 Transportation Office has been notified of the expected maximum support requirements.

The Del Mar scoring devices on AGR's 4, 5, and 6 have been inoperative for the majority of this reporting period. This is mainly due to inadequate maintenance and supply, damage caused by high explosive ammo and difficulties from moisture in the cables. A conference was held at Ft Rucker on 8 Dec to discuss small development requirement studies for instrumentation of AGR's. It was decided not to expend further funds on instrumented ranges for the time being. All salvageable Del Mar components have been removed from the ranges and are awaiting turn-in through CONARC, which has operational control of the equipment.

The XM-35 (20mm) gun system, when available, is cleared for use on AGR's 1, 2, and 3. Use of other ranges for XM-35 firing must be obtained by special clearance.

ETV Branch

The ETV Branch was transferred within DOI from Curriculum Division to Operations Division in July.

Installation of the closed circuit television playback system for Hunter AAF was completed and became fully operational in October. The closed circuit system at Ft Stewart was fully operational, less Evans Heliport, in November.

Installation of weather vision systems at Hunter AAF and Wright AAF was completed in November.

The following video tapes were produced by the ETV Division, USAAVNS, to support training at USAAVNS Element:

Roles of Army Aviation.

Preflight of the Huey Cobra.

Preflight of the UH-1D, H.

Preflight of the T-41B.

Aircraft Instruments, MOI.

Instrument cross-check, MOI.

Training film, "Huey Cobra - Critical Flight Conditions and Emergency Procedures," was produced at Hunter AAF by Army Pictorial Center.

A total of 2022 ETV programs were played back through closed circuit television to support instruction at USAAVNS Element.

Facilities Support Branch

The following construction projects were completed during the first quarter of CY 69:

Electrical power procured and installed at Ridgeland GCA site.

Relocation of power line at Evans Army Heliport.

Construction projects completed during the second quarter of CY 69 were:

Air conditioning of fixed wing classrooms at Ft Stewart.

Modification of facilities and installation of equipment for closed circuit television at Hunter and Ft Stewart.

Construction of three EM barracks at Hunter.

Construction projects completed during the third quarter of CY 69:

Pad lighting of AGR 4 and AGR 5.

Seeding and sprigging of Stagefield 4.

Installation of electrical outlets on the Cobra Ramp.

A fully automated 759 series was put into use for all permanent party aviators and students assigned to the Hunter/Stewart complex. This eliminated over one-half of the keypunch operation which was associated with the old set of 759 forms. The USAAVNSE was the first to implement automated 759 forms for students.

Background for a Data Automation Requirement (DAR) to support the need for Page Aircraft Maintenance, Inc. (PAMI) computer support for the Aircraft Maintenance Brigade (Prov) at Hunter was furnished to Fort Rucker. The DAR was prepared and submitted in late September and was returned without action from CONARC. At the end of the year, additional information was being collected for resubmission of this DAR at a later date.

An Automated Direct Exchange Aircraft Parts Program was initiated in August. This efficient program is providing daily inventory and shop status plus management information that had not been available under the manual system.

A Maintenance Man-Hour Accounting Program was designed for the Aircraft Maintenance Brigade (Prov). The program was tested in the Second Maintenance Battalion during October. Modifications to the program were made and a full scale Man-Hour Accounting Program should be initiated for the Aircraft Maintenance Brigade (Prov) by February, 1970.

An NCR 500 Computer System was delivered and became operational in the Aircraft Maintenance Brigade (Prov) during the month of October. This system provides an efficient means of controlling and accounting for supply parts within the brigade. The system has been in operation approximately three months at this time and is operating satisfactorily. The NCR 500 Assistance Team from Fort Lee made a followup visit in December. It indicated they were pleased with the current operation. They made several recommendations of ways to improve the efficiency of the system. These suggestions have been incorporated into current operating procedures.

Air-conditioning of the Operations Buildings at TAC-X.

Reconditioning of Building 1154.

Construction projects completed during the fourth quarter of CY 69.

One 80-man EM barracks - Hunter.

Prefabricated building at Evans AHP.

Projects under construction as of 31 Dec:

Nose dock modification of two buidlings, estimated completion date of 20 Feb 70.

Stagefields 2 and 3 repairs, grassing, and slopes, estimated completion date of 15 Jul 70.

The Branch coordinated normal R&U and minor construction work requests for all departments of the USAAVNSE at Hunter AAF and Fort Stewart.

The General's Funding Policy Letter, dated 23 Oct, limited alterations, additions, expansions and construction work to that essential to mission accomplishment.

Aircraft Management 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 69</u>	<u>Asgd 31 Dec 69</u>
UH-1	0	-63	-63	313	250
TH-13	0	-46	-46	140	94
AH-1	+14	- 5	+ 9	38	47
O-1	0	0	0	25	25
T-41	0	- 1	- 1	73	72

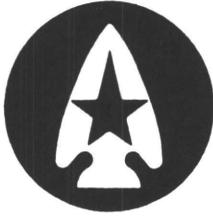
A supplementary to the Commandant's Report was initiated to provide additional information requested by the ADC.

The Sub-EOC for OPLAN HUREVAC was activated for CPX Exercise Big Blow II.

DATA SYSTEMS DIVISION

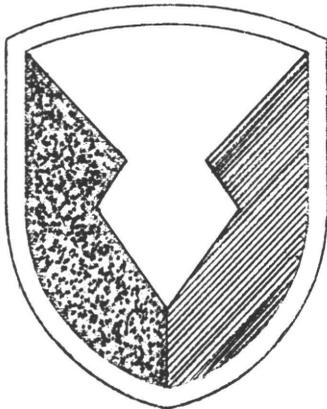
The Data Automation Requirement (DAR) for the Aviation Training Management Information System progressed through the data collection flow charting and final draft phase. Continuous coordination has been maintained with the United States Army Primary Helicopter School, Fort Wolters, and the United States Army Flight Training School, Fort Rucker. Department of the Army and CONARC were present at the September ADP conference for a discussion of the submission of the DAR.

Development and implementation of an Aviator Qualification Program was accomplished in general. This program provides the necessary management to control the permanent party aviators assigned to the Hunter/Stewart complex. It lists aircraft qualifications, instrument qualifications, date of last physical examination, and ETS where it applies of each permanent party aviator assigned.



CHAPTER 5

**CLASS II
ACTIVITIES**



UNITED STATES ARMY AVIATION HUMAN RESEARCH UNIT
and
HUMAN RESOURCES RESEARCH ORGANIZATION-DIVISION NO. 6
(AVIATION)

ORGANIZATION:

Human factors research and technical advisory service for Army aviation in the areas of training, training devices, motivation and leadership were continued by HumRRO Division No. 6 during the year.

PERSONNEL:

MAJ Dunell V. Schull replaced LTC Ralph V. Gonzales as Chief of the Human Research Unit on 30 December.

ACCOMPLISHMENTS:

Activities for HUMRRO Division No. 6 are divided into "Work Units." The following represents a synopsis of such accomplishments throughout the year.

Work Unit SYNTRAIN: The objective of this study is to expedite application of advances in training technology in the design of synthetic Army Aviation training equipment; enhanced by surveys of training device design requirements and human factor research.

Activities related to SYNTRAIN that were pursued during the year were:

The research staff assisted on-going development work on the Synthetic Flight Trainer System (SFTS). Planning to accept the evaluation model of the SFTS due to be delivered to the USAAVNS in the fall of 1970 continued. The staff participated in briefings; reviewed proposals, QMRs, and specifications; and assisted AMC and NTDC progress reviews.

An OV-1 "paper trainer" was developed and delivered to USAAVNS.

Evaluation of the GAT-2, an off-the-shelf twin engine Fixed Wing Instrument Trainer, was begun. Phase I, a transfer of training evaluation, was completed and an interim report of the results was provided to the USAAVNS. Phase II, to develop an optimum program of instruction exploiting the unique features of the device, was initiated. Two four-week experimental classes, with a total of six students, were completed.

Work Unit UPGRADE:

The determination of project is to study relationships between job requirements, training and manpower considerations for aviation maintenance. Specific objectives are to develop techniques for attainment of task data with emphasis on translating the data into effective training programs; to develop techniques for better definitions of school and unit training responsibilities; and to study the effect non-use of training has on morale, retention in service, and proficiency of aviation maintenance personnel.

The following programs were continued on UPGRADE during CY 69:

The world-wide survey of UH-1 mechanic, MOS 67N20, and their supervisors was completed. The 4508 UH-1 mechanics and 1405 supervisory personnel contacted were estimated to be about 80% of the UH-1 mechanic population. The survey results were fed into the HumRRO

Central Computer and analyzed. A Technical Report, Job Description Data: UH-1 Mechanic, MOS 67N20 I. Survey Results Related to Background Training and General Maintenance has been prepared and is expected to be published in early 1970. Many results of the survey have been turned over to the US Army Transportation School and the USAAVNS for use in aviation mechanics courses planning.

Work Unit PREDICT: This activity was instituted to develop operational systems for predicting performance of Army aviators during training and operational assignments by means of computerized multiple regression equations and probability tabbs. The initial system will be designed for use in secondary selection in the aviation training program.

The following is a description of past work on PREDICT:

Work Unit PREDICT formally began on 1 July but grew out of exploratory studies begun last year. A broad base of data is being collected on background and performance of students in the initial pilot training courses. Data are being collected at Fort Polk, Louisiana, Fort Wolters, Texas, Hunter AAF and Fort Stewart, Georgia, and Fort Rucker, Alabama. The data are being subjected to computer analysis at the HumRRO Computer Center. It is planned to have an operating predictor system of pass-fail probabilities available to commanders and faculty boards at the US Army Primary Helicopter School in the first part of 1970. The system will then be made available to the advanced phases at the USAAVNS, Fort Rucker, and the USAAVNS Element, Hunter AAF.

The USAAVNS requested that criteria be developed for selection of initial entry students to be trained as "gun pilots" in the AH-1G. Approximately 25% of each class is sent to gunnery training. Short-comings had been identified by the school in the current procedure. A combat rating scale based on critical incident techniques was devised and initially tested with seventy-one recent Vietnam returnees.

Work Unit MANPROBE: The basis of this project 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.

Year-long activities on MANPROBE include:

Work Unit MANPROBE grew out of a 1968 exploratory study, ES-61 Reconnaissance and Surveillance. A yard-stick is needed against which to evaluate the many man-machine R&S systems which may be developed or procured for future Army use. A key factor in this yard-stick is man's capability to process and use the mass of available data. A model of man's information handling functions was developed. Based on interviews with Vietnam returnees, 90 mission profiles were developed of typical R&S missions covering both visual and electronic R&S in six types of aircraft. In this framework, 56 pilots and OV-1 sensor operators were interviewed. The interviews were transcribed and analyzed to identifying information sources which initiate crew actions and affect behavior. Modes of information handling are being examined. It was determined that in view of the sequential nature of reported data that the information density imposed upon a crew member may best be approached from the crew information handling requirements.

In addition to the afore-mentioned projects, USAAVNHRU provides Technical Advisory Service to the USACDCAVNA, USAAVNS, USABAAR, USAARL, USAAVNTBD and to US Army Contractors.

The following is a description of principal action effected during the year by TAS:

Human factors assistance was provided to the USAAVNTBD in service testing of the Iroquois Night Fighter and Night Tracker (INFANT) system. INFANT was developed under the SEANITEOPS program (now MASSTER) and it was necessary to expedite the testing. A human factors evaluation was considered to be a crucial part of the service testing.

At the request of CONARC, a study was undertaken of lessons learned at the USAAVNS in implementing CON Reg 350-100-1 (Systems Engineering of Training). A detailed report was published in January 1970 and recommended revisions to the regulation.

Human factors observations on the AH-56A development program were provided to USACDCAVNA and subsequently to the Army Aviation Center Team and other agencies interested in the development of the AH-56A. The paper highlighted a number of lessons to be learned and pitfalls to be avoided in future R&D work.

Information was compiled for USACDCAVNA and a report was prepared on passenger stress and motion sickness probabilities in future Army aircraft systems. The report suggested some low cost design considerations that could minimize motion sickness problems that might occur in higher performance future Army aircraft.

The following is a list of principle publications produced by HumRRO No. 6 (Aviation) during CY 69:

<u>Title</u>	<u>Publication No.</u>
Use of Job and Task Analysis in Training	Professional Paper 1-69
Factors in Predicting Army Aviator Performance: Birth Order and Participation in Dangerous Sports and Activities	Professional Paper 13-69
Attitudes as Predictors of Retention for Army Pilots	Professional Paper 14-69
Measures of Reaction to Threat of Physical Harm as Predictors of Performance in Military Aviation Training	Professional Paper 15-69
Human Factors in Air Mobility	Professional Paper 31-69
Combat Aviator Criterion Development	Professional Paper 34-69
An Evaluation of Integrated Contact-Instrument Flight Instruction in Army Fixed-Wing Training	Technical Report 69-26



UNITED STATES ARMY AVIATION TEST BOARD

ORGANIZATION:

On 13 January, the US Army Test and Evaluation Command directed the USAAVN Test Board to transfer all procurement functions to the US Army Aviation Center. This action resulted in substantial savings and improvement in operations.

ACCOMPLISHMENTS:

During CY 69, the Test Board averaged 125 test projects in some stage of progress. The projects ranged from service tests of the CH-47C and OH-58A helicopters to aviator flight clothing and 20 and 30 mm helicopter subsystems.

In 1969, the Test Board initiated 72 separate test projects, completing 70.

During the year, a change in the structure of the maintenance contract procedure was instigated. Previous contracts were on a Cost Plus Fixed Fee (CPFF) basis; which was considered undesirable by DOD. The new system, termed "more competitive" by the Contracting Officer, Aberdeen Proving Ground, Maryland, is negotiated and awarded under a Cost Plus Award Fee (CPAF).



NEW RECORD - On 17 Sept, the longest nonstop flight of a CH-47 Chinook was completed. The flight, from Ft Rucker to El Paso, Texas, covered 1125 nautical miles. The all-military flight crew comprised of: MAJ Harold L. Huff, commander; CW4 James F. Cain, pilot, and CW4 Harold W. Davis, pilot. Gross weight of the ship at take-off was 46,000 pounds.

UNITED STATES ARMY BOARD FOR AVIATION ACCIDENT RESEARCH

Expansion and Reorganization:

The year 1969 was one of reevaluation of the requirements and capabilities of the U. S. Army Board for Aviation Accident Research (USABAAR). In-house analyses were made to determine the improvements that were needed to adequately support the safety requirements of Army aviation throughout the life cycle of all Army aircraft systems. These analyses resulted in the major decision to modernize the data processing system to fulfill USABAAR's data requirements in a timely and responsive manner. This modernization generated a provisional reorganization of the Board in order to more effectively deal with the mounting aviation problems of today.

This reorganization, under the cognizance of Colonel Russell P. Bonasso, took effect in March and included the Office of the Director, Plans and Programs Department, Aircraft Accident Review and Analysis Department, Education and Prevention Department, Life Sciences Department, Data Center, Administrative and Management Division, and the Liaison Division.

In July, contractual services were procured to assist USABAAR in determining their data requirements, which resulted in the revision of DA Form 2397 Series, "Technical Report of U. S. Army Aircraft Mishap," and the required system design.

On 3 November, a contract was let for installation of a 360/50 computer system with remote telecommunication terminals. This system will be housed in Building 5205 and is scheduled to be operational on 1 April 1970.

Personnel:

Colonel Eugene B. Conrad assumed the duties as Director of USABAAR in August upon the retirement of Colonel Bonasso.

The Board's authorized personnel strength increased from 92 military and civilian personnel at the end of 1968 to 117 at the close of 1969.

Accident Rate and Cost:

During the past 11 years, the annual flying program, or exposure, has increased by a factor of 5½. Despite this, however, considerable progress has been made in the accident prevention effort and the accident rates have been reduced. In FY 58 the accident rate was 54.3 as compared to the projected rate of 22.0 for FY 69.

In FY 69, the weekly dollar costs in hardware alone averaged slightly over \$3 million, an increase of \$1 million a week over that in FY 68. This is attributed to the more complex equipment in the Army today and the increased flying-hour program.

Conferences and Presentations:

USABAAR provided Army representation to the 8th Joint Services Aviation Safety Conference at New York from 4 to 6 February 1969 to interchange aviation safety matters with U. S. Navy, Air Force and Coast Guard representatives.

USABAAR participated in the Air Force Industry System Safety Conference in Las Vegas from 25 to 28 February to exchange ideas, experience, and professional knowledge to advance understanding of the state of the art in system safety program effectiveness.

USABAAR's goals and responsibilities in aviation safety were presented to the attendees of the Army Aviation Program Review at Hunter Army Airfield on 11 and 12 February. New aviation accident prevention methods and techniques were stressed as essential to reduce the annual accident rate.

PLANS AND PROGRAMS (P&P) DEPARTMENT

Programs:

This department participated in the following programs and made comments and recommendations concerning system safety engineering.

- (1) AH-56A Cheyenne (AAFSS)
- (2) Utility Tactical Transport Aircraft System (UTTAS)
- (3) Rotorcraft Engineering Handbook

Presentation:

P&P personnel made a System Safety Research presentation to the Army Scientific Advisory Panel at Fort Rucker, which consisted of a review of aviation accident experience. Special emphasis was placed on the requirement for system safety research in the area of human factors, systems and subsystems, analysis, new materials, education, training, and management.

Conferences:

Personnel attended three conferences pertaining to aviation safety.

Studies:

Studies were conducted on disorientation and combat readiness training.

Reviews:

Personnel reviewed SDR's and MIL STD's and submitted comments and recommendations pertaining to safety aspects.

AIRCRAFT ACCIDENT REVIEW AND ANALYSIS (AAR&A) DEPARTMENT

Aircraft Accident Investigations:

AAR&A personnel participated in eighteen investigations in CONUS and six overseas.

Conference and Meetings:

Personnel attended five conferences on:

- (1) OH-58A Preflight Type Certification, resulting in further testing of some items before FAA certification.
- (2) OH-58 Handbook and Checklist to review and rewrite the handbook prior to the OH-58 being delivered to the Army.
- (3) CH-47 Safety-of-Flight Items, resulting in an engineering change proposal on the blade sockets.

(4) OH-6A Problem Solving, pertaining to tail boom strikes, unreliable instruments, and armor kit.

(5) T63-A-5A Engine Inspection, resulting in retrofitting these engines with a modified double-shot peened gear.

Safety-of-Flight Inspections:

Personnel participated in safety-of-flight inspections of the OH-13 carburetor shaft and CH-47 radio instrumentation wire bundle routing. These inspections resulted in the issuance of safety-of-flight messages to all users, requiring inspections of these aircraft and appropriate necessary corrective actions.

Projects:

AAR&A personnel coordinated with other agencies on problems concerning:

- (1) Removal of CH-47A aft section soundproofing panels.
- (2) Development of a crash resistant fuel system for UH-1D and UH-1H helicopters.
- (3) Installation of an improved poppet valve in OH-6A helicopters.
- (4) Collapsing of OH-6A tail rotor blades.

Comments and recommendations were favorably considered and actions have been taken or will be taken to correct these problems.

Safety Evaluation:

The CH-47C, L-11, Helicopter was evaluated for crashworthiness and safety features. Results of this evaluation, if accepted and incorporated in the helicopter, should result in a much safer aircraft.

Studies:

(1) Studies were conducted on TH-55A and OH-6A helicopters to forecast failure trends and to determine problem areas in these aircraft. The studies resulted in MWO's and retrofit programs to enhance the Army Aviation Safety Program.

(2) A study was conducted on installing crash resistant fuel tanks on TH-55A helicopters. A tank of this type is now under evaluation.

Safety-of-Flight Change:

An investigation was conducted on recovery technique in the AH-1G when reduced "G" forces are encountered, which resulted in a safety-of-flight change to the operators manual. This message warned operators of the reduced response to flight control input when maneuvers resulted in flight at or near the "0" G regime. It also provided required recovery techniques.

EDUCATION AND PREVENTION (EDP) DEPARTMENT

Accident Prevention Surveys:

Ten aircraft accident prevention surveys were conducted 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:

(1) Army Aviation Safety Orientation (ASO) Course - This one-week course is designed to give personnel in, or associated with, Army aviation an insight into the typical aircraft accident mechanism and an effective approach to accident prevention while improving mission capabilities. This course was presented to 428 students in CONUS and overseas.

(2) Army Aviation Commander and Staff Officer Aviation Safety Orientation Course - This one-week course is designed to acquaint nonrated senior commanders and staff officers with the techniques of aviation accident prevention. The instruction is presented at the University of Southern California (USC), Los Angeles. 85 students attended the course.

(3) Army Aviation Safety Course - This department provided direction to the students and faculty of this course at USC. It also provided supervision to insure accuracy of information and adequacy of course content. 149 students attended this course.

Conference:

A Curriculum Review Conference was held with USC personnel to determine whether the contents of the U.S. Army Aviation Safety Officer Course were geared to problems aviation safety officers encounter at unit level. This resulted in more emphasis being placed on system safety and increasing the length of the course by one day.

Safety Presentations:

This department made 35 Army aviation safety presentations to Army National Guard Units, aviation personnel, and ground commanders.

Broken Wing Aviation Safety Award:

This award is established for aviators who display extraordinary skill, judgement, and technique in recovering an aircraft from an in-flight emergency. One hundred and twenty-three nominations were reviewed and processed in 1969. Forty-eight were approved, 70 were disapproved, and 5 were returned for additional information.

Safety Education Literature:

The department produced accident prevention in the following media:

(1) Three hundred and thirty-six pages of aviation safety literature and nine covers for the U. S. Army Aviation Digest. USABAAR's input consisted of information extracted from aircraft accident reports and articles written by USABAAR, manufacturer, and U. S. Army Aviation Systems Command personnel and USC students.

(2) Fifty-two issues of the Weekly Summary, containing aircraft accidents, incidents, forced landings, precautionary landings, and "share its."

(3) Twelve issues of the National Guard Summary, containing National Guard aircraft accidents, incidents, forced landings, and precautionary landings.

(4) Twelve issues of the Monthly Maintenance Summary, containing aircraft accidents, incidents, forced landings, and precautionary landings with confirmed and suspected maintenance causes.

(5) Two DA 96 Series Aviation Safety Posters, prepared and submitted to DA for publication.

(6) Four Annual Accident Summaries (OH-13 and OH-23, Ov-1, CH-47, and OH-6), containing statistical data for the fiscal year compared with that of previous years and briefs of accidents, incidents, forced landings, and precautionary landings.

Conferences:

LSS personnel participated in a total of 91 conferences within and outside USABAAR.

Formal Education:

Personnel conducted approximately 80 hours of classroom instruction in the Aviation Safety Orientation Course, Advanced Army Medical Officers Course, and Basic Army Aviator Medical Officers Course.

Flight Surgeon's Newsletter:

The first Flight Surgeon's Newsletter to be published in eighteen months was prepared in January. This letter is now planned for publication on a quarterly basis.

DATA CENTER

Modernization:

Several of the events of historical significance in the Data Center were centered on the modernization of USABAAR's data processing system. These were:

(1) Contractual Services Request - In January, the formal request for contractual services was forwarded through OACSFOR to the Assistant Secretary of the Army for Financial Management. After consultations with the DA Staff and data processing specialists, a work statement for the contractual effort was initiated.

(2) Contract Proposals - The Purchasing and Contracting Officer of the U. S. Army Mobility Equipment Command (USAMECOM), St. Louis, Mo., was selected in March to support USABAAR in contractual services. Requests for proposals for the contract of USABAAR's ADP System were forwarded to prospective bidders. Approval for the request for contractual services was received by USABAAR in April. Contract proposals were received by the USAMECOM Purchasing and Contracting Officer and were technically evaluated by a committee, including Management Information Systems and Computer Systems Support and Evaluation Command. Also during April, a Joint Services Subcommittee met to develop uniform descriptive statistics to be incorporated in USABAAR's new system. Evaluation of all bids for contractual services was completed in May. Contract negotiations were closed and a pre-award survey of the prospective winner was initiated.

(3) Contract Initiation - A contract with Computer Sciences Corporation for an ADP Systems analysis/requirements definition and a system design/development was signed on 4 June. Contract personnel were on site at USABAAR during June.

Manpower Survey:

A manpower survey was conducted by OACSFOR during February which recommended approval of 53 of the 54 spaces proposed by the Data Center.

Personnel:

A supervisory computer specialist was hired in June as Chief of the Data Processing Division within the Data Center.

Major Projects:

The Data Center supported the following major projects throughout the year with data.

- (1) UTTAS study
- (2) Mid-air collision study
- (3) In-flight control and engine failure problem study on the OH-6A
- (4) Combat readiness training study

LIAISON DIVISION

Personnel:

At the beginning of FY 1969, USABAAR had three liaison officers: one stationed with the U. S. Air Force Directorate of Aerospace Safety, Norton Air Force Base, California; one with the U. S. Naval Safety Center, Norfolk, Virginia; and the other with the U. S. Army Aviation Materiel Command, St. Louis, Missouri. However, in June the liaison position with the Air Force was temporarily suspended and is not expected to be refilled until the early part of FY 1971. This space was transferred to St. Louis due to the increasing workload, and in June, another liaison officer was assigned to St. Louis.

Liaison Activities for 1969 Consisted of:

- (1) Aviation safety presentations to requesting Army units.
- (2) Filling requests for information related to aviation safety.
- (3) Accelerating USABAAR projects through coordination with other agencies.

Presentation:

The most significant event during FY 1969 was a presentation to a USAAVSCOM Aeronautical Scientific Advisory Group consisting of university and industry scientists. The topic of the presentation was accidents in single main and tail rotor aircraft. Its purpose was to advise the Commanding Generals of USAAVSCOM and USAMC on how to prevent or eliminate problem areas in these aircraft.

LIFE SUPPORT SCIENCES (LSS) DEPARTMENT

Meetings:

(1) In May, the flight surgeon participated as a committee member in the Aerospace Medical Association Meeting in San Francisco, maintaining Army representation and participation in this worldwide aeromedical group. He also participated as a charter member in the founding of the Society of U. S. Army Flight Surgeons, an organization dedicated to the advancement of aviation medicine in the Army.

(2) In October, the flight surgeon visited the Royal Air Force Institute of Pathology and Tropical Medicine in England to attend the Seventh Scientific Session of the Joint Committee on Aviation Pathology.



UNITED STATES ARMY COMBAT DEVELOPMENTS COMMAND AVIATION AGENCY

1. MISSION:

In order to insure the orderly and timely development of Army Concept Programs, the Commanding Officer, USACDC Aviation Agency, will accomplish the following tasks within the USACDC Combat Arms Group assigned areas of responsibility:

a. Using approved concept and doctrine studies as a basis, develop the basic derivative studies for aviation to include aviation units, regardless of level of command, to insure the timely completion of each Army Concept Program.

b. Develop other follow-on derivative actions for aviation doctrine, material, organization and evaluation at aviation brigade level and lower, regardless of level of command, for each Army Concept Program. This responsibility extends to the aviation components at division, corps, and army. These follow-on actions will be developed in accordance with the concept and doctrine for the time frame developed by ISS, ILC, IAS, ICAS, CSSG, and CSG.

c. Provide timely input and review to other elements of the command as required and in accordance with current directives.

d. Coordinate with the collocated service school and test board to make full use of available experience, knowledge, and capabilities, and to obtain assistance in the accomplishment of combat developments actions.

e. Develop evaluation requirements and evaluate test results.

f. Monitor all development activities within the agency area of proponentcy to insure appropriate and timely response to input requirements approved by higher headquarters.

g. Perform other combat developments actions as directed.

2. MAJOR FUNCTIONS:

a. Functions Pertaining to the Concept Phase:

(1) Review and analyze the Threat Forecast and Army Tasks prepared by the Institute of Land Combat and establish operational capabilities objectives which will permit carrying out the broad tasks.

(2) Develop and provide input to ILC for inclusion in the Land Combat System (LCS) study as required.

(3) Develop proposed US Army positions pertaining to concepts of operation and organization and materiel requirements for NATO, quadripartite, and other international standardizations.

(4) Provide input to and comment upon concept follow-on studies prepared by the Institute of Advanced Studies as required.

(5) Participate in international standardization meetings as directed.

b. Functions Pertaining to the Doctrine Phase:

(1) Provide input to ICAS for inclusion in the Combined Arms and Support study as required.

(2) Using the input provided to ICAS as a nucleus and in accordance with study directives from USACDCCAG, develop basic derivative studies.

(3) Identify requirements for other derivative studies.

(4) Develop other derivative studies as directed.

(5) Conduct special studies as directed.

(6) Develop new, revise or change doctrinal literature as required.

(7) Coordinate doctrinal development actions with collocated service schools.

c. Functions Pertaining to the Materiel Phase:

(1) Identify materiel requirements for which a need has been recorded in input to LCS, doctrine studies, basic derivative studies and derivative studies.

(2) Prepare DPQMDO's and informally coordinate with collocated TECOM board.

(3) Accomplish actions listed below, as directed, to insure that requisite objectives are accomplished prior to completion of advanced development of major systems:

(a) Development of mission and performance envelopes.

(b) Conduct operational trade-off evaluation of considered systems.

(c) Conduct cost/effectiveness studies of competing systems.

(4) Examine parametric design information to refine characteristics stated in the QMDO.

(5) Review QMA furnished by the developer to determine if any specific operational problems have not been covered and prepare a Proposed Advanced Development of Objective (PADO). (If more than one approach was suggested in the QMA, the PADO should select the approach or approaches which appear to offer the best solution.)

- (6) Prepare DPQMR's as required.
- (7) Review and comment on system development plans as directed.
- (8) Conduct trade-off analysis as directed to insure that capabilities expressed in OCO and QMR can still be obtained within mission and performance envelopes under postulated operational criteria.
- (9) Conduct DCQMR's based upon results of engineering development tests and prototype systems.
- (10) Evaluate service test reports in relation to service test objectives and recommend suitability of items for Army use.
- (11) Participate in production validation tests as required.
- (12) Evaluate production acceptance tests as necessary.
- (13) Review and comment on materiel development requirements of other services as required.
- (14) Participate in international standardization actions pertaining to materiel development.
- (15) Maintain liaison with appropriate AMC Test and Commodity Commands to monitor R&D programs and provide user guidance to R&D activities.
- (16) Identify and evaluate major product improvement requirements by maintaining an awareness of the performance status of selected items of materiel throughout their life cycles.
- (17) Participate in the ENSURE program as required by USACDC instructions.
- (18) Maintain liaison as appropriate with Automatic Data Field Systems Command and Automatic Data Field Systems Design Agency.

d. Functions Pertaining to the Organization Phase:

- (1) Develop proposed unit structure QQPRI and TBOI's to meet requirements outlined in doctrine, basic derivative and other derivative studies.
- (2) Using the preliminary design and engineer effort as a basic, provide input to total maintenance requirements.
- (3) Provide coordination comments to USACDC Maintenance Agency on maintenance support plans.
- (4) Develop Draft Plan TOE, MOS, and CBOI, as required.

e. Functions Pertaining to the Evaluation Phase:

- (1) Determine requirements for recommended field experiments, test, simulations, war games, training exercises and troop tests.
- (2) Prepare and review plans of troop tests and field experiments.
- (3) Observe and monitor troop tests as required.
- (4) Evaluate the results of troop tests.

The following material requirements studies were accomplished during CY 69:

1. Airplane Combat Surveillance, (ACN 2058).
2. Lightweight Ballistic Protective Material, for Critical Structural Areas of Army Aircraft, (ACN 2126).
3. Army Aircraft Terminal Control Facility (ACN 2126).
4. Advanced Aerial Fire Support System (ACN 6998).
5. Helicopter Multifunction Radar System (HELMS).
6. Utility Tactical Transport Aircraft System (ACN 10705).
7. Heavy Lift Helicopter (ACN 15620).
8. STOL Utility Fixed Wing Airplane Study (ACN 14941).
9. Laser Target Designator/Locator System (ACN 11900).
10. Advanced Energy Beam Target Locator System (ACN 15536).
11. Heavy Lift Aircraft System (ACN 12881).
12. Fireproof Clothing for Army Aircrewmembers (ACN 2775).
13. Helicopter Landing Zone Mine Clearance Device (ACN 3130).
14. Air-to-Air Weapons System for Army Aircraft (122521).
15. Anti-Icing/De-Icing Equipment for UTOL Aircraft (ACN 13740).
16. Aircraft/Vehicle and Air Defense Small Caliber Fluid Propellant Weapon System (ACN 7153).
17. Minor Unscheduled Material Actions (ACN 14030).

The following is a list of unclassified reports dealing with various program testing and evaluation:

1. Aviation Fire Support Company (AH-56A) (ACN 12821).
2. Operational Reports -- Lessons Learned (ACN 70550).
3. Vietnam Returnee Debriefing Program (ACN 12313).
4. Flashblindness Protective Device for Army Aircrewmembers (ACN 5083).
5. Bullet Detection Device for Army Aircraft (ACN 66310).
6. Selective Effects Armament Subsystem (ACN 5083).
7. Voice Warning System (ACN 7012).
8. Integrated Ground Airborne Avionics System (ACN 11899).
9. Aircraft Area Weapons System (ACN 12522).

f. Functions Pertaining to Logistics and Administration:

(1) Budget for Agency operational activities in accordance with guidance provided by Headquarters, USACDC, and Headquarters, USACDCCAG.

(2) Initiate requests for contract-furnished operations research support.

(3) Supervise contracts with educational and commercial research firms in accordance with policies established by Headquarters, USACDC, and Headquarters, USACDCCAG, in those instances that separate contracts have been authorized and approved.

In performance of the above mission statements, CDC initiated, prepared and/or completed the following doctrinal and conceptual studies along with work on various other activities.

The following is a list of Field Manuals prepared for publication by CDC during CY 69:

1. FM 1-100, Army Aviation Utilization (Revision) (ACN 11123).
2. FM 1-60, Army Air Traffic Operations (ACN 2364) (Revision).
3. FM 1-15, Aviation Battalion, Group Brigade (ACN 10033).
4. FM 1-5, Aviation Company (ACN 10615)
5. TT 1-5-2, Attack Helicopter Company (ACN 16740)



During CY 1969, CDC participated in the following doctrinal program studies:

1. Manned Aerial Vehicle for Surveillance (ACN 16322).
2. Aviation Organization Requirements for the Army (AORTA) (ACN 14626).
3. Proposed Joint Doctrine for US Army Use of the Airspace Over the Combat Zone (ACN 2096).

CDC exercised General Monitorship over the following programs during CY 1969:

1. Avionics.
 - a. Navigator, Lightweight, Self-Contained (ACN 2067).
 - b. Position Fixing and Navigation System (PFNS)(ACN 2069).
 - c. Terrain Avoidance System for Fixed Wing Aircraft (ACN 2076).
 - d. Remote View Night Vision System (ACN 2078).
 - e. Air Traffic Control System (ACN 2096).
 - f. Army Aircraft Terminal Control Facility (ACN 2126).
 - g. Small Tactical Voice Security Equipment (ACN 3260).
 - h. Emergency Beacon and Voice Transponder (ACN 3648V).
 - i. Remote Area Approach and Landing System (ACN 6630V).
 - j. Master Avionics Plan (ACN 14082).
 - k. Integrated Radios (SLAE) (ACN 15599).
 - l. TACAN (ACN 16069).
 - m. Collision Avoidance System and Proximity Warning Indicator (ACN 16070).
 - n. Rotor Blade Radar (ACN 16071).
 - o. Electronic Counter Measures (ACN 16335).
 - p. Army Avionics Program (ACN 14082).
2. Aircraft Systems:
 - a. Light Observation Helicopter (LOH) (ACN 2057).
 - b. Aerial Crane (ACN 2059V).
 - c. Interim Attack Helicopter AH-1G (ACN 7379V).
 - d. Utility Helicopter (UH-1) (ACN 13887).
 - e. Utility Airplane (ACN 6220V)
 - f. Medium Transport Helicopter (ACN 7505).
3. Armament and Associated Aircraft Equipment:
 - a. QMR for Armed Helicopter Weapons System (ACN 2070).
 - b. Interim Army Air Delivered Tactical CS Munitions (ACN 5551).
 - c. Fire and Forget Antitank Guided Missile (ACN 7032).
 - d. Drop Flare Subsystem for Army Aircraft (ACN 7461).

- e. SDR for Clothing System for Army Aviation Crewmembers (ACN 7027).
- f. PSDR for Ballistic and Crash Resistant Self-Sealing Fuel Cells (ACN 11842).
- g. DPSDR for Family of Survival Kits for Army Aviation (ACN 13104).
- h. LR-QR for Aircrewmembers Protective Headgear (ACN 15073).
- i. Study on Army Air Delivered Flame Munitions (ACN 16730).

The following Tables of Organization and Equipment (TOE) were completed during CY 69:

1. TOE-87, Aviation General Support Company, Armored or Infantry (Mechanized) Division (ACN 14376).
2. TOE 1-128T, Aerial Surveillance Company (ACN 11610).
3. TOE 1-66T, HQ & HQ Company, Aviation Brigade (ANC 13559).
4. TOE 1-117, Aviation Fire Support Company (ACN 14112).
5. TOE 1-87G, Aviation General Support Company (ACN 14376).
6. TOE 1-55G, Combat Avn Bn, Abn Div (ACN 14091).
7. TOE 1-75G, Combat Avn Bn, Inf Div (ACN 9650).
8. TOE 1-177T, Surveillance Helicopter Co (ACN 13558).
9. TOE 1-252G, HHC Combat Aviation Group (ACN 9360).
10. TOE 1-256G, HHC Combat Aviation Battalion (ACN 9359).
11. TOE 1-258G, Assault Support Helicopter Co (ACN 9357).
12. TOE 1-259G, Heavy Helicopter Co (ACN 9358).
13. TOE 1-111G, Attack Helicopter Company (ACN 9630).
14. TOE 1-357G, Assault Helicopter Company (ACN 16183).

Summary:

In addition to the afore stated program accomplishments during CY 1969, CDC concerned itself with the planning and implementation of troop tests, Copious Operational Reports-Lessons Learned, the debriefing of Vietnam returnees, evaluation of selected "off-the-shelf" type systems, and programs pertaining to the assessment of prototype weapon systems.

US ARMY AEROMEDICAL RESEARCH LABORATORY

ORGANIZATION:

The US Army Aeromedical Research Laboratory continued to conduct timely studies on current and anticipated research problems of fundamental and/or immediate nature. Under the direction of COL R. W. Bailey, Commanding Officer, the research was relevant to Army aviation and airborne physical performance standards, medical aspects of retention and selection, training, operations, and equipment requirements. Data was recorded and analyzed, and results, recommendations, and consultative service has been furnished to other elements of the Army as appropriate. Liaison was maintained with Army, Navy, Air Force, Federal Aviation Agency, and other federal and civilian institutions concerned with aviation and airborne activities. Collaborative studies were performed whenever possible in order to avoid unnecessary duplication.

Effective 15 January, this organization was redesignated from US Army Aeromedical Research Unit to US Army Aeromedical Research Laboratory, Office of The Surgeon General, General Order Number 6, dated 27 January.

Personnel authorization has increased significantly during CY 69. Personnel authorization for first quarter was 46 (14 officer, 16 EM, and 16 civilian). Ending CY 69 personnel authorization is 55 (16 officer, 20 EM, and 19 civilian). In addition to authorized staff, the laboratory has authorization for 21 research subjects. Only six of these spaces are filled.

Two additional buildings, were acquired during the year. Delay in renovation has prevented their utilization but occupancy is expected early in CY 70. Construction of a laboratory vivarium began in November and is expected to be completed in January 1970. The vivarium is expected to enhance the research capability of the entire laboratory, especially the Aviation Medicine Research Division.

An effort to increase the Automatic Data Processing capability of the laboratory is continuing. Automatic data reduction will greatly enhance the laboratory operations; e.g., many professional man hours which are now necessary for manual computation may be utilized for data collection.

The US Army Medical Research and Development Command visit and The Surgeon General's IG Inspection were conducted in October and November respectively. Only minor discrepancies were noted.

The general direction of 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.

During CY 69 the following USAARL Reports were published:

USAARL Report 69-2, Selected Anthropometric Measurements of 1640 US Army Warrant Officer Candidate Flight Trainees

USAARL Report 69-3, An Evaluation of Ophthalmic Plastic (CR-39) Lenses in the US Army Aviation Environment

USAARL Report 69-5, Continuous EKG Recording of Helicopter Instructor Pilots - An Interim Evaluation

USAARL Report 69-9, Evaluation of the Human Body as an Airfoil

USAARL Report 69-12, Automated Column Chromatographic Analysis of Deacylated Phospholipids

USAARL Report 69-15, Forms of Closed Circular DNA in Rat Liver During Regeneration and Following Aminoazo-Dye Carcinogenesis

USAARL Report 69-16, Temperature Dependence of Venom Phospholipase A and Related Haemolysis

USAARL Report 69-17, Effects of Cyanide and 2 Deoxyglucose on Proximal Tubular Function in the Rat Kidney

USAARL Report 69-18, Effects of 2, 4 Dinitrophenol on Proximal Tubular Sodium Reabsorption and Permeability to Nonelectrolytes in the Rat Kidney

USAARL Report 70-1, Micropuncture Studies on the Mechanism of Sulfate Excretion by the Rat Kidney

USAARL Report 70-2, Real-Ear Sound Attenuation Characteristics of CBS Laboratories' Mark II Earphone Inclosures

USAARL Report 70-3, Visibility from the Rear Seat of the US Army O-1A (Bird Dog) Aircraft

The following joint Army-Navy reports were published:

USAARL Report 69-4 (NAMI 1056), The Somatic Chromosomes of the Mongolian Gerbil (Meriones Unguiculatus)

USAARL Report 69-6 (NAMI 1064), Dynamic Response of the Head and Neck of the Living Human to - Gx Impact Acceleration

USAARL Report 69-7 (NAMI 1073), Assessment of Semicircular Canal Function: I. Measurements of Subjective Effects Produced by Triangular Waveforms of Angular Velocity

USAARL Report 69-8 (NAMI 1066), Autonomic Responses to Vestibular Stimulation

USAARL Report 69-10 (NAMI 1071), Rod and Cone Contributions to S-Potentials from Cat Retina

USAARL Report 69-11 (NAMI 1072), Rod-Cone Interaction in S-Potentials from Cat Retina

USAARL Report 69-13 (NAMI 1074), Assessment of Semicircular Canal Function: II. Individual Differences in Subjective Angular Displacement Produced by Triangular Waveforms of Angular Displacement

USAARL Report 69-14 (NAMI 1075), The Rod After-Effect in S-Potentials from Cat Retina

APPENDIX A

Memorialization Program

1. During 1969 the following buildings and/or facilities named in honor of individuals indicated:

<u>Facility/Building</u>	<u>Designated</u>	<u>In Honor Of</u>	<u>Authority</u>
Shopping Center, Fifth Ave and Red Cloud Road	Hutton Plaza	BG Carl I. Hutton	GO 12 24 Feb 69
Tactical Site I	Robert Leslie Runkle Tactical Site	LTC Robert L. Runkle	GO 35 6 May 69
Troop Barracks, Bldg 4506	Olson Hall	PFC Grover K. Olson	GO 34 6 May 69
Maintenance Complex, Bldgs 405,412,415 & 416	David E. Condon Maintenance Complex	LTC David E. Condon	GO 33 6 May 69
Bldg 103, Shell Field	Miller Hall	MAJ Carl S. Miller, Jr.	GO 32 6 May 69
Swimming Pool, 6800 Block	Hartwell Pool	CWO William R. Hartwell	GO 63 2 Sep 69

2. Following is a brief synopsis of individual for whom facilities were named:

Hutton Plaza: Brigadier General Carl I. Hutton served in the Regular Army from 27 April 1925 to 6 October 1961. General Hutton graduated from the United States Military Academy at West Point 12 June 1930 and was appointed a Second Lieutenant, Field Artillery, that date. Between 1930 and 1941 he served in various command and leadership positions at small unit level. During World War II, he served as a Staff Officer at various levels and was commander of 92d Field Artillery Battalion, 14th Field Artillery Battalion, and 2d Armored Division Artillery. He returned to Fort Hood, Texas, at the end of the war and served as Deputy Commander and Commanding Officer of the 2d Armored Division Artillery. Between 1946 and 1950 he served at Fort Sill, Oklahoma, as a student and then as Director and Assistant Director of Air Training for the Artillery School, and G4 for the Artillery Center. Prior to attending the War College in 1951, he served in the Office of the Chief of Military History. Between 1952 and 1954 he served in Korea as Commanding Officer, 24th Division Artillery, and as Commanding General, 24th Division. Upon his return to the United States, he assumed duties as Commandant of the Army Aviation School at Fort Sill, Oklahoma, after a brief period as a student at the School. He supervised the relocation of the Aviation School from Fort Sill, Oklahoma, to Fort Rucker, Alabama, and served as the first Commandant and Commander of the Army Aviation School and Center at Fort Rucker, Alabama, from August 1954 until June 1957. Upon his departure from Fort Rucker, Alabama, in June 1957, he became Commanding General of the 8th Infantry Division in Germany and served in that capacity until March 1959. He then served as Chief, Training Division, United States Army Element, Federal Aviation Agency, Washington, DC, from March 1959, until his retirement in October 1961.

Robert Leslie Runkle Tactical Site: Colonel Runkle served as an enlisted man on active duty in the United States Navy from 7 March 1944, to 26 June 1946, and in the United States Naval Reserve, not on active duty, from 27 June 1946, to 23 December 1948. He transferred to the United States Army Reserve and served in inactive status from 24 December 1948, until 22 January 1949. He served on active duty with the United States Army from January 1949, until his death on 4 April 1968.

He was appointed a Second Lieutenant, Infantry, in the United States Army Reserve on 24 December 1948, after having served in the United States Navy from 7 March 1944. He entered active duty on 23 January 1959, and completed the Basic Officer Course at Fort Benning, Georgia. Upon completion he was assigned to Korea and served as platoon leader and company commander with the 5th Cavalry until June 1951. Upon his return to the states he was assigned to Fort Jackson, South Carolina, and later to Fort Bragg, North Carolina. In both assignments he performed various command and staff-type assignments. He completed airborne training in December 1951, and was designated an Army Parachutist. In 1953, he was reassigned to Europe and spent three years in Germany assigned to troop and staff duties. In 1956, upon return to the states, he attended the Infantry Officer Advanced Course at Fort Benning, Georgia. Upon completion he reported to Camp Gary, Texas, to begin flight training. He was designated an Army Aviator on 17 January 1958. Upon completion of training he was assigned to the United States Army Aviation School, Fort Rucker, Alabama, and served in Department of Instruction. He departed Fort Rucker in 1961 for assignment to the Far East and served with the United States Army Utility Tactical Helicopter Company when initially deployed to Vietnam. In 1962, he returned to Fort Rucker and was assigned to Combat Development Command where he served as Chief Brigade/Division Branch, Advanced Student Division until December 1963. He reported to the Command and General Staff School in January 1964 to attend the associate course. Upon completion he returned to the Combat Development Command at Fort Rucker. He remained with the Combat Development Command until October 1965, when he was assigned to the Assistant Chief of Staff, G1, United States Army Aviation Center. He served various staff capacities until his departure in May 1967 for Vietnam. He was assigned to the 1st Cavalry Division (Airmobile) and served as Assistant G1, Deputy Brigade Commander, Third Brigade; and Battalion Commander, 1st Battalion, 5th Cavalry. On 4 April 1968, while performing duties as Battalion Commander aboard a Command and Control helicopter, he was mortally wounded when the aircraft was hit by hostile small arms fire, causing it to crash and burn.

Olson Hall: Private First Class Olson served in Active Army from 4 April 1963, until his death on 17 January 1964.

He entered the service on 4 April 1963, at Portland, Oregon. He received his basic training at Fort Ord, California. In July 1963, he reported to the Enlisted Student Company, United States Army Aviation School, Fort Rucker, Alabama, to begin aircraft maintenance training. He completed the Aircraft Maintenance; Single Rotor Observation Helicopter Maintenance; and the Single Rotor Turbine Helicopter Maintenance course during the period July-October 1963.

Upon completion of training he was assigned to the Army Utility Tactical Helicopter Company for duty in Vietnam. He reported for duty on 13 October 1963, and was assigned duties as a crew chief.

On 17 January 1964, while serving as crew chief aboard a helicopter on a combat mission in the Republic of Vietnam, the aircraft exploded in mid-air and burst into flames causing the death of Private First Class Olson.

David E. Condon Maintenance Complex: Colonel Condon enlisted in the National Guard of Virginia 22 January 1941, and was inducted into active military service of the United States 3 February 1941. He was honorably discharged as Technical Sergeant on 20 July 1942, at Fort Sill, Oklahoma, to accept a commission after completing Artillery Officer Candidate School.

He was appointed Second Lieutenant, Field Artillery, Army of the United States, 21 July 1942, and served as Gunnery Instructor at the Field Artillery School, Fort Sill, Oklahoma. He was promoted to First Lieutenant, Army of the United States, 10 May 1943. He departed for overseas service and served in Europe as Air Observation Officer from 18 January 1944, to 10 July 1945. He was promoted to Captain, Army of the United States, 24 July

1944, and to Major, Army of the United States, 1 July 1945. He again served in Europe from 14 February 1946, to 4 May 1949, with assigned duties as Assistant Artillery Staff Officer, Commanding Officer of the Air Mechanics School and Division Air Office. He received appointment in the Regular Army as First Lieutenant 5 July 1946, and was promoted to Captain, Regular Army, 1 July 1948. He was again assigned to Fort Sill, Oklahoma, with duties as Student Officer and Engineer Officer, Department of Air Training. He was promoted to Lieutenant Colonel, Army of the United States, 7 July 1951, and upon completion of course at the Command and General Staff College, he departed for overseas service and served in the Far East Command from 18 August 1953, to 20 December 1954. He served as Senior Aviation Advisor to the Republic of Korea Army. He branch transferred to the Transportation Corps 25 August 1954, and was assigned duties as Commanding Officer, 40th Transportation Battalion. On 30 June 1955, he was assigned to the Army Aviation Center, Fort Rucker, Alabama, with duties as Deputy Chief of Staff for Aircraft Maintenance and to the Armed Forces Staff College, Norfolk, Virginia, on 28 January 1957. He again departed for overseas service and served in Europe from 2 August 1957, to 25 January 1960, with assigned duties as Executive Officer and Maintenance Officer, 8th Transportation Group (Aviation) and S3 and Special Assistant to the Commander, 10th Transportation Group. He was assigned to the Transportation Training Command, Fort Eustis, Virginia, and was serving as Assistant Transportation Officer for Aviation at the time of his death. Colonel Condon, while on authorized leave, died on 5 July 1961, as a result of injuries incurred when a civilian helicopter crashed at Eagle Rock, Virginia.

Miller Hall: Major Carl Socrates Miller, Junior, 075253, United States Army, served in the Active Army from 3 September 1952 until his death 29 January 1966.

He enlisted in the service 3 September 1952 and received basic and advanced infantry training at Fort Jackson, South Carolina. After a short assignment at Fort Gordon, Georgia, he was reassigned to the Far East, serving a tour in Korea. In 1955, upon his return to the states, he was assigned to Camp Chaffee, Arkansas, and remained assigned there until reporting to Artillery Officer Candidate School at Fort Sill, Oklahoma, on 7 November 1955.

He was commissioned a Second Lieutenant, Artillery, on 1 May 1956. He remained assigned to Fort Sill, performing troop and staff-type assignments. In January 1957, he reported to Camp Gary, Texas, to commence flight training. He completed fixed wing training and was designated an Army Aviator on 16 August 1957, and assigned to the 4th Infantry Division at Fort Lewis, Washington. In 1959, he completed rotary wing training and was then assigned to Alaska where he performed various type duties. Upon his return from Alaska he entered the Artillery Officer Career Course and upon completion reported to Instrument Flight Training at Fort Rucker, Alabama. He remained assigned to the Army Aviation School serving as an instructor with the Department of Rotary Wing Training. In August 1964, he was designated a Senior Army Aviator. In April 1965, he departed Fort Rucker for assignment to Vietnam. He was assigned to the 114th Aviation Company as a Section Commander on 3 June 1965.

On 29 January 1966, while serving as aircraft commander of a UH-1B on a combat operation, his aircraft was hit by hostile small arms fire which mortally wounded Major Miller. He was posthumously promoted to the grade of Major, AUS, as of 28 May 1965.

Hartwell Pool: Chief Warrant Officer William Raymond Hartwell, 314-48-4924, United States Army, served in the active Army from 31 July 1965 until his death 10 January 1968.

Chief Warrant Officer William Raymond Hartwell enlisted in the service 31 July 1965 and received basic training at Fort Knox, Kentucky. Having enlisted under the Warrant Officer Flight Training program he reported to Fort Wolters, Texas upon completing basic training to commence flight training. He remained at Fort Wolters until March 1966 when he reported to Fort Rucker, Alabama, for the remainder of his training. He completed flight training in July 1966 and was appointed a warrant officer and designated an Army

Aviator. Upon completion of training he was assigned to the 128th Aviation Company in the Republic of South Vietnam where he served as a rotary wing aviator. On 10 January 1968 while serving as an Aircraft Commander his aircraft received hostile small arms fire which fatally wounded Chief Warrant Officer Hartwell.

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