

BEACON

VOLUME 58 No. 4



MERRY CHRISTMAS

AND

HAPPY NEW YEAR

FROM

THE BEACON

1958

CAA Employees' Association

**CAA AERONAUTICAL CENTER
OKLAHOMA CITY, OKLAHOMA**

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HOLIDAY GREETINGS FROM THE DIRECTOR

To All My Co-Workers:

At this Christmas season,
my wish is that you and those
dear to you will have a very
Merry Christmas, and a New
Year filled with happiness and
prosperity.

Sincerely,


F. M. Lanter

MEET PERSONNEL, AC-90

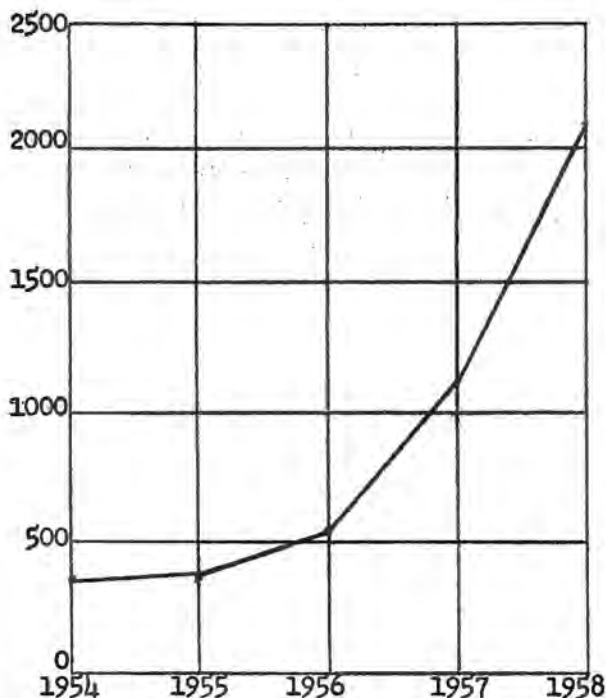
SURELY DO HATE TO admit that the last
time we had a picture of all members of
the Personnel Division in the Beacon was
in the Christmas issue of 1955. The
picture at that time was of six individuals
who then constituted the entire Personnel
Division. They were William Jackson,
Myrrel Reed, Loren Cameron, Margo
Pickens, Pauline Faulkner and Daisy
Dovell. Surprising as it seems, five of
the six are still with us and have managed
to survive the trials and tribulations
elicited by the Center's growing pains
and vacillating programs. This time it
took three pictures to do the job of bringing
before the Beacon readers all of the
Personnel Division's present staff. Ac-
cording to statistics we could still use
more. (Continued on page 3)

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Our cover girls for this issue are: Lyla
Jackson, AC-200, 1 (on stairway); Helen
Barlow, AC-220 (on front ladder); and
Mary Jo Barton, AC-92 (in fly suit
hurriedly borrowed from Warren Smith).

QUOTING U. S. NEWS and World Report, "The best possible means to illustrate a great deal at a quick glance is by a simple graph". The charts on this page will give you an idea of the tremendous change in the authorized staffing of the Center during the past four years and the on duty strength of the Personnel Division during the same period.

AS THE HOLIDAY season draws nigh, we just can't help but remember some of our



Currently represents a 554% increase in staffed positions

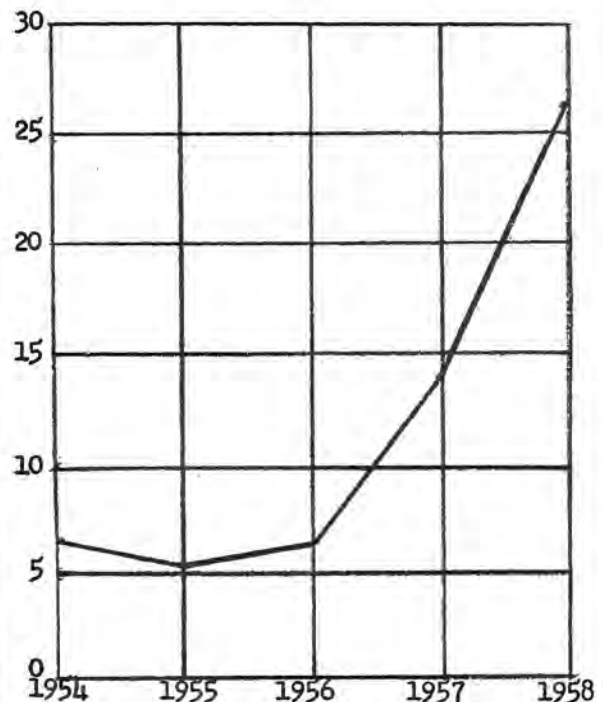
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MRS. GUNDERSON SWORN IN AS CS COMMISSIONER

MRS. BARBARA BATES GUNDERSON was sworn in as Civil Service Commissioner on September 12 in a ceremony at the CSC Building in Washington, D. C.

ex-personnel staff who have transferred to other offices of CAA. We'd like to say hello to Joe Bailey, now in Washington, D. C., Hilda Aaron, 2nd Region, Fort Worth, Texas, and to Loren Cameron, 5th Region, Alaska. In fact, we would like to wish all of you, old and new, past and present, Center employees a Very Merry Christmas and Happy New Year.

- M. Pickens



Currently represents a 385% increase in on duty strength of the Personnel Division.

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The oath of office was administered by CSC Chairman Harris Ellsworth.

HER APPOINTMENT to the Civil Service Commission made her the fifth woman Commissioner in the Commission's 75-year history.

OFFICE OF DIVISION CHIEF AND CLASSIFICATION BRANCH



Back Row, left to right, Myrrel Reed, Chief, Classification Branch, Maurice Hall, William Jackson, Chief, Personnel Division. Front Row, left to right, Lucille Taylor Mary Jo Barton, Frances Chase

PERSONNEL RELATIONS BRANCH & RECORDS SECTION



(See identification - page 5

EMPLOYMENT BRANCH



Back row, left to right, Elwyn E. Carpenter, Charles Head, Marion Schug, Jim Walton, Fred Purcell, and William (Bill) Shelton, Chief, Employment Branch. Front row, left to right, Donna Mewendorp, Margo Pickens, Olive Klima, and Pauline Faulkner.

Pictured on page 4 - lower photo are:

Back row, left to right - Eugenia Conrad, Reba Fitzpatrick, Bonnie Brooks, and Jean Koons. Front row - Daisy Dovell, Records Section Supervisor; Harold Leeper, Chief, Personnel Relations Branch; Betty Cermak.

DIRECTED STUDY SHOWS BIG GAIN

ALL TIME HIGHS in numbers of examinations and new enrollments received in Directed Study courses are developing during the fall months. Field personnel are submitting examinations, for example, at the rate of 1,400 per month, and the total for the first quarter of FY 1959 reached an all time high of 3,612. A 500% increase in examination activity was apparent over a 2-year span from the first quarter of FY 1957 through the same quarter in 1959.

ON OCTOBER 1, there were 5,060 enrollments in Directed Study courses and figures indicated that approximately 75% of CAA's
(Continued page 25)

REPORTERS' RESPONSE IS GRATIFYING - - -

AT BEACON STAFF meeting the editor announced that the warehouse would be featured in this issue and that perhaps action pictures would best depict the operation. It was also suggested that other groups should not be remiss in sending in publicity on their activities - that some reporters have been a little forgetful about submitting material.

THE FOLLOWING PAGES attest to the fact that if an editor isn't prepared to be overwhelmed, he or she should write only - never open the mouth too wide. Ramrodded by Dick Wenzel, Facilities Materiel Division secured a photographer, guided him to points of interest and sent us an unusually good picture story of the people, places, and the equipment they work with/on in supplying requirements of far-flung CAA construction projects. Margo Pickens was ahead of us - she already had cajoled and brow-beat personnel in Personnel into having pictures made and had words and photos all waiting for the deadline.

THOUGH FOREWARNED THAT she will be busy next issue when the new hangar will be our star attraction, Ladine Garrett found some items of interest to send in about people on the flight line. Air Navigation Facilities Branch is always represented in our publication because Art Schmitt always gets us some news. It is a real thrill when people who aren't on the staff just up and send in material - like Helen Hefner, AC-3, who supplied the story and pictures on the successful bond drive, or Helena Drake, AC-116, who got us pictures and facts about the new bowling league, or June Grayson, AC-2, who has consistently sent us interesting stories on Aeromaids.

ALL WE CAN say is that is this keeps up, there will always be a BEACON - worth reading.

RESULTS OF AEROMAIDS ELECTION ANNOUNCED

AT THEIR Christmas meeting, held December 11 in the Patrician Room of O'Mealey's May Avenue Cafeteria, the Aeromaids Club of the Center announced the results of their balloting for officers next year: President, Jane Fanning (Facilities Materiel Division); Treasurer, Harriet Wilson (Payroll Section), and Secretary, Bebe Staples (also Payroll Section). The new officers will be installed at the January meeting of the Club.

IT WAS ALSO announced at this meeting that the Club's volunteer Christmas fund has reached a total of \$47.50. When they met in November, the members voted to adopt a Christmas project, the contributions to be used for some form of Christmas gift to the residents of Oklahoma County Old Folks' Home. Margaret Hood, member of the Project Committee, reported that after some investigation they had determined that the most worthwhile gift to the Home would be turkeys for their Christmas dinner and the girls approved the use of the fund for that purpose.

- J. Grayson

INSURANCE BENEFITS NEAR QUARTER-BILLION DOLLAR MARK

BENEFITS TOTALING NEARLY a quarter of a billion dollars have been paid to beneficiaries of deceased Federal employees and retirees since the Federal Employees' Group Life Insurance program became effective in 1954.

BY JUNE 30, 1958, 43,046 claims totaling \$208,519,802 had been paid to beneficiaries. During FY 1958 alone, claims paid numbered 13,948, and amounted to \$68,224,910.

THE CSC-ADMINISTERED program is the largest of its type in the world. It is financed (1) by withholdings from the salaries

(continued on page 9)

MR. HALL, HERE
IS THAT PICTURE



ABOUT TWO ISSUES ago, a picture was missing from the BEACON . . . without doubt, the work of Gremlins. Since the picture completely disappeared or disintegrated, a new photo has been made and the BEACON is proud to present Mr. John Hall at his desk, third floor, front wing of Headquarters building.

THE FIRST PHOTO marked the arrival to the Aeronautical Center of Mr. Hall to take over the duties as Chief, Fiscal Branch, Budget and Finance Division. This photo was made only a few days after the arrival of a new member of the Hall family - John K. Hall, Jr., who was born November 17, 1958.

THE ARTICLE ACCOMPANYING the missing picture was credited to Leona Rickman, one of the dependables who see that we get something to print. If she doesn't write the articles, she sees that someone else does - that time it was Robert S. Oliver.

WE ARE GLAD to have an excuse for mentioning Bob's name at this time because we can announce his recent promotion and congratulate a mighty deserving person on his new title, "Chief, Budget Estimates Branch".

EMPLOYEES NEW TO THE BUDGET AND
FINANCE DIVISION SINCE JULY

New to CAA

DECKER, MARADA - Assistant Fiscal Branch Chief. Mr. Decker came to us highly recommended having single-handedly set up the mechanized appropriation accounting system at Tinker. He attended Oklahoma University. The Decker's have two children.

ST. CLAIR, Janis R. - Clerk-Stenographer Prior to coming to work at the Center, Janis worked in Norman at the University where her husband is now a student in the school of mechanical engineering.

New to the Division

BENNETT, MARGARET M. (Peggy) - Appropriation Accounting Clerk. Peggy transferred to us from Operating Materials Division. Prior to joining CAA she was employed with the Ford Motor Company. Her husband is an accountant with Haskell Lemon Construction Company and they have two boys. She is a native Okie. Her hobby is sewing and designing.

BROWN, ELOUISE K. - Payroll Clerk. Kay transferred from Facilities Branch in September, however, she is not new to payroll - welcome back, Kay.

NOLEN, EVELYN W. - Appropriation Accounting Clerk. Evelyn worked for Internal Revenue and the Flight Inspection Branch here at the Center before transferring to our Division. She is a native Oklahoman.

WRINKLE, NORMA J. - Accounting Technician. Norma transferred to us from Internal Revenue. She's lived in Oklahoma since 1948. Her hobby is raising quarter horses.

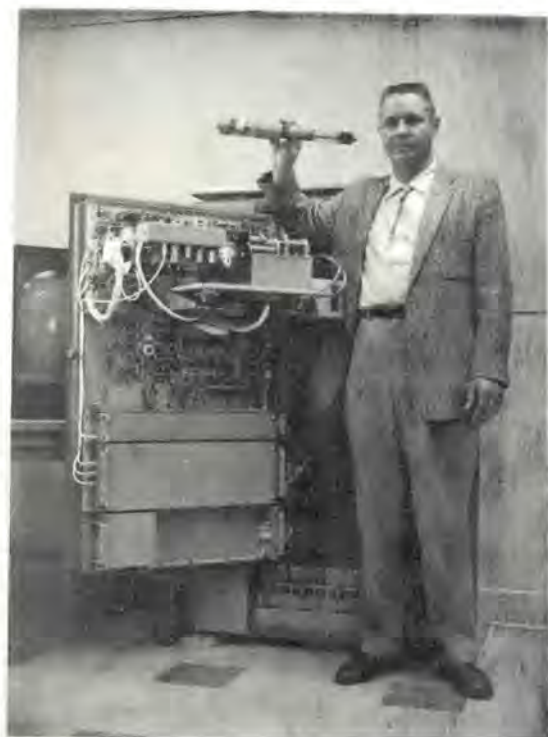
ANF RECEIVES NEW SCAN CONVERSION EQUIPMENT



THE RADAR SCHOOL of Air Navigation Facilities Branch recently received a TI-440 Scan Converter and five television monitors. The new Scan Conversion equipment has been temporarily installed with the ASR-3 Radar training equipment in order that instructors may familiarize themselves with the system and so that laboratory procedures can be set up for future use in training.

EVENTUALLY THE TI-440 will be permanently installed in the ARSR-1 Long Range Radar laboratory. The new equipment is manufactured by a French concern and is distributed by Intercontinental Electronics Corporation of Mineola, Long Island, New York.

SCAN CONVERSION EQUIPMENT is planned for use in Air Traffic Control Centers and Towers to provide a bright display, allowing ambient light conditions to remain in controller areas. Part of the equipment is a special scan converter tube which accepts Radar PPI information through a TV scan to a normal television video signal. This signal band feeds TV monitors, as many as are needed at any particular location. An additional advantage is that a mosaic screen, part of the converter tube, can be used as a storage element allowing the length of target "tails" to be made as long as desired. This feature, when used, clearly indicates the direction of movement of any target.



IN THE LOWER photograph, Mr. Lester Griffey, Radar Instructor, holds an early version of the tube that converts Radar signals from PPI to television scan. Albert Kuehne, of the Special Radar Group, assisted by William B. Taylor, will develop a Scan Conversion course which will include laboratory instruction.

**FAA HEAD VISITS CENTER;
SPEAKS AT CITY C of C**

GENERAL E. R. "PETE" QUESADA, the recently-appointed Administrator of the Federal Aviation Agency, visited the Aeronautical Center on November 14.

IN OKLAHOMA CITY to address the Chamber of Commerce, General Quesada said he was "pleasantly shocked" on viewing the Center's facilities at Will Rogers Field. He added that he was as impressed with the dedicated manner in which the Center employees carry out their duties as with the fine new buildings and equipment which he inspected.

CALLED "THE NUMBER ONE man in aviation today" by Senator Mike Monroney, who introduced General Quesada at the Chamber of Commerce luncheon, the Administrator paid tribute to Senator Monroney's leadership in the creation of the FAA.

IMPLEMENTATION OF THE aviation bill will have a profound effect on activities at the Aeronautical Center, General Quesada said. "It is possible that the number of students at the Center will double in much less than two years," he added.

HE ALSO INDICATED future expansion of aircraft maintenance and warehousing operations at the Center would be required, and at an accelerated pace.

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(Insurance - continued from page 6)

of over 2,000,000 Federal-employee participants and (2) by contributions from employing agencies equal to half the employee contributions. The amount of insurance now in force under the program totals \$11,000,000,000 underwritten by 165 insurance companies.

**CENTER'S 1958-59 "BIG ONE"
CAMPAIGN IS SUCCESS**

THE 1958-59 "BIG ONE" campaign resulted in 93% participation and 192% of the Center's quota, for an all-time high in employee giving. The quota, based on 1957 contributions, was \$6734, or about \$4.00 per employee.

THE NEW FUND-RAISING policy eliminated the prizes given in former campaigns, and some thought that we'd be lucky to make the \$6734 goal. But the results, a cool total of \$12,915 in contributions, prove that the prizes are not necessary for Aeronautical Center employees to give willingly and to help those less fortunate. The cynics took a beating this time, primarily because the spirit of friendly competition between divisions and branches developed an interest in the real reasons for the United Fund idea.

DIRECTOR, FRED LANTER, who was also co-chairman of the Federal Employees section of the 1958-59 campaign, expressed his appreciation for the fine efforts of all campaign workers in personally contacting every employee at the Center. He awarded a large trophy, provided by the Employees Association, to the Supply Division for the best overall results. "Oscars" were awarded to all campaign workers representing units which did a good job in the drive.

"IT HAS BEEN a heartwarming experience", Lanter said, "and I'm proud to be associated with people who care enough about their community and their neighbors to give voluntarily and so generously".

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IF YOU'RE worried about what the younger generation is coming to, look in the mirror. You'll find your answer but you may still be worried.

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NEW BOWLING LEAGUE ORGANIZED

SELECTING THE increased interest in employee sports activities at the Center, a new bowling league has been organized this season. The CAA Capitol Hill Bowling League experienced the usual difficulties in getting under way, but are established well enough now to challenge the "old timers". Competition between the leagues, both sponsored by the Employees Association, is close with only 15.5 games difference between first and last place teams. This may seem like a big difference to a non-bowler, but any one who chews nails or bites cigars on Tuesday night at Bowlarena or Wednesday night at Capitol Sports Center realizes points can change quickly. Since this will be the first play off between two Aeronautical Center bowling teams, interest is keen and confidence high among all the players.

THE COLORFUL and descriptive team names for both leagues are:

BOWLARENA:

WOODPECKERS, Clyde Daniels, Captain
TUBE TAPPER, Chas. Abbott
HI MARKS, Phil Wilcox
HIGH FLYERS, Fred Schur
CHAMPS, Ed Schmidt
NAVAIDS, Bill Williams
JATOS, Bob Haworth
SPOTTERS, Marvin Bridwell

CAPITOL SPORTS CENTER:

CAMRL FIVE, Bill Reed, Captain
CELLARS, Joe Yadon
SATELLITES, Chuck Wheelwright
GOPHERS, J. Green
BUNGLER, Harold Van Hooser
HOLTE'S RANGERS, Rollie Caywood
GUTTERBUGS, Don Mastin
PRECISE FIVE, Ralph Ohler

Pictures at Bowlarena were made by the

league's most ardent fan, Dorothy Morgan. Thanks to Helena Drake for snapshots of Capitol group.



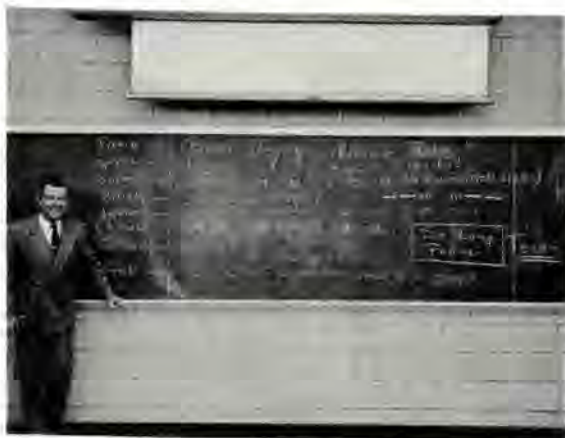
CAPTOL Hill League officers shown in above picture are: Kenny Baker, president; Donald Odvody, Vice president; Helena Drake, secretary-treas.; and Warren Brakebill, Sgt. at Arms.



Don Odvody, ready to make a strike - maybe; Doc Swearingen in background.



BOB EDLUND RECEIVES VARIETY OF FAREWELLS



IN EIGHT LANGUAGES farewells were said to Chief Instructor Bob Edlund on his last day at Air Navigation Facilities Branch as he was preparing to leave for a foreign assignment as Electronic Engineer (ILS/VOR) at Seoul, Korea.

FOREIGN STUDENTS in the Communications Equipment school, where Mr. Edlund was assigned, wrote their goodbyes and best wishes on the blackboard (as shown above) in French, Spanish, Korean, Polish, Japanese, Chinese, German and Greek, and that foreign language "Texan".

BOB CAME TO THE Center in October, 1956 from a post in Region 5 headquarters at Anchorage and ended his tour of duty here November 26, 1958.

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MANY PEOPLE miss their share of happiness - not because they never found it but because they didn't stop to enjoy it.

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Have you solved the problem -
or did you just rearrange it?

HUGE NEW HANGAR REPLACES OLD #9

HANGAR #9, OLDEST of the 3 hangars located at the Aeronautical Center, has given way to progress. Once located between Hangar #8 and Hangar #10 in the Aircraft Standardization and Maintenance Division area, it has been torn down to be replaced by a huge new hangar which is already under construction at the same location. The old hangar was originally occupied by the Military and designated as the 84th Sub-Depot. When the Aeronautical Center transferred from Houston, Texas, to Oklahoma City, it became a part of the Center and was used by Supply. Since 1950, it has been used for aircraft maintenance work by the Standardization and Maintenance Division.

IN THE MEANTIME - there is not a square foot of space to spare in Hangar #10. Visitors touring the hangar need only walk through the hangar and office areas to realize that we are "bursting at the seams". The personnel eagerly await the completion of the new hangar and look forward to the not too distant future when the big move will be made. Even though the move will involve several shops and offices and all the inconveniences and confusion which accompany such a change, enthusiasm is high. Growth of the new hangar, already labeled "new #9" is checked closely by various sidewalk superintendents and reported regularly to one and all.

THE EXPANSION OF the Aeronautical Center is directly reflected by the Aircraft Standardization and Maintenance Division in its need for additional housing, which, it is hoped, will be supplied by the new hangar

L. Garrett

"Are you working on the solution --
or are you part of the problem?"

CENTER'S 'ORBIT MAN' WOULD STUMP PANEL



WE NOMINATE Noel Lucas as the most likely candidate for stumping the panel on "What's My Line?". He works in the Flight Inspection Branch, Data Processing Section. That office is the only one of its kind and born, not so many years ago, right here at the Aeronautical Center.

ANYONE IN CAA who has a speaking acquaintance with Data Processing knows that "Luke" can come up with all the answers in analyzation whether they hand him a pint size, medium or king size recording. And when they talk about orbits over there, they're not referring to the outer space kind but the 20, 30, and 40 mile orbits the Flight Inspectors fly, compile data on the recorder and then roll it up for mailing to Luke and the Data Processers.

LUKE CAME TO THE Center in 1953 and we couldn't venture a guess as to how many of those orbit circles he's gone around in but we're pretty sure of ourselves when we say he's made a host of friends,
(Continued next column)

TRAVEL AUDITORS TRAVEL AGAIN

WELCOME HOME, Travel auditors - you hadn't gone far but you had gone long! When the student travel section was established within the Audit Branch to handle the travel vouchers of students in attendance at the Center, the girls (Florine Crockett, Jean Lacey, & Marvella Hoyt) were physically located within the ATC training area. This arrangement held true even after the relocation of ATC to its new building, and Budget and Finance to the new Administration building. Now, though, with continued expansion of all training schools, it was decided that a central location would be a better physical arrangement for the unit. Naturally what better location could one want than right in the midst of one's own organization. So, finally the Audit Branch is no longer a house divided - for the clan has now been gathered under the same spacious roof.

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SOME HOUSEWIVES go over their budgets carefully each month, other just go over them.

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both at the Center and throughout the Regions.

THE WOMEN IN Luke's life are his two married daughters and his lovely wife, Anne. And we're not guessing with the panel when we say she's one of the finest cooks, hostesses and homemakers in town.

LUKE'S HOBBY IS photography, but his more serious interests are Boy Scout work and filling in for whatever layman spot he's needed down at St. Luke's Methodist Church.

SO UNTIL THAT first satellite goes into outer space with the man aboard, we nominate Luke as our top flight orbit man.

- M. Weatherford

CENTER RECEIVES TOP AREA AWARD

THE CAA AERONAUTICAL Center was given the U. S. Treasury Department top award for its achievement during the 1958 U. S. Savings Bond Campaign according to an announcement by Samuel D. Braden, Oklahoma State Director, U. S. Savings Bond Division. Mr. Braden presided over award ceremonies at the Center, Monday, November 3rd.

AWARDS WERE MADE by Joseph J. McCain, Director of Oklahoma City Social Security Administration and Government Coordinator, Savings Bond Program.

THE HIGHEST AWARD given by the Treasury Department was presented to Mr. Lanter and Mr. Mitchell. This citation includes a printed reproduction of President Eisenhower's inaugural prayer and is framed by wood from the stand on which the oath of office was administered.



Mr. Lanter receives Treasury's top award from Joseph J. McCain.



Left to right are: R. W. Pulling, Chief, Facilities Materiel Div.; Ted DeWitte, Division Chairman, Aircraft Standardization & Maint. Div.; Director Lanter; Asia M. Krause, Division Chariman, Federal Airways Standardization; and C. W. Mueller accepting for W. H. Hill, Federal Airways Standardization Chief.

FOR SUCCESSFUL BOND CAMPAIGN



Left to right are pictured: R. D. Jackson, Division Chairman, Operating Materials Division; S. R. Holte, Chief, Operating Material Div.; James W. Pound, Division Chairman, Supply Division; Paul H. Shively, Chief, Supply Division; Director Lanter; Louise H. Bode, Division Co-Chairman, Budget & Finance Division; A. K. Whitacre, Chief, Budget & Finance Div. The girl between Louise Bode and Mr. Whitacre is Beverly Criswell, Procurement Branch.

MR. LANTER ALSO made appropriate awards to the Division Chiefs and their Division Bond Chairmen for their achievement in signing up employees in the Savings Bond Plan.

DURING THE CAMPAIGN the number of CAA employees joining the Payroll Savings Plan at the CAA Center increased from 563 to 1278, a gain of 127%. Results showed 82% of the Center's employees participating. Mr. McCain termed this the outstanding achievement among organizations in Oklahoma this year, including Government and industry.

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(Ke Trifles make for perfection but
perfection is no trifle - -

Not shown in the pictures are the following who participated in the success of the bond campaign:

Richard A. Wenzel, Bond Chairman, Facilities Materiel Division; W. M. Matthews, Chief, Aircraft Standardization Division; and Betty Mills, Co-Chairman, Budget & Finance Div.

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**BRaille EQUIPMENT
BEING INSTALLED**

TO BROADEN FEDERAL employment opportunities for the blind, the Civil Service Commission is liberalizing physical requirements for telephone-operator positions in Government, CSC has announced. (continued page 25)



Left to right: E. B. Olson, Deputy Director; H. H. Leeper, Division Chairman, Personnel Div.; W. M. Jackson, Chief, Personnel Div.; Director Lanter; Helen I. Hefner, Chairman, Office of the Director; June H. Donceel, Division Co-Chairman, Flight Operations & Airworthiness Div.; Iola McElderry, Co-Chairman with Mrs. Donceel; and L. E. Shedenhelm accepting for W. W. Smith, Chief, Flight Operations & Airworthiness Division.

FIRST WOMAN APPOINTED UNDER CS ACT DIES

MRS. MARY FRANCIS HOYT MOSES, 100, first woman appointed to a Federal Government position under the Civil Service Act of 1883, died October 19 at her home in New York City.

ON THE OCCASION of her birthday, last June 17, Civil Service Commission Chairman Harris Ellsworth visited her and delivered to her a personal letter from President Eisenhower hailing her as "the symbol

of women now comprising one-fourth of the entire Federal service."

SIX MONTHS AFTER the Civil Service Act was passed in 1883, Mrs. Moses, a graduate of Vassar College, took the first competitive examination given under the new law. She was the second person, the first woman, to receive an appointment. She accepted a \$900-a-year clerkship in the Treasury Department, and remained with that agency until 1888, when she married Brice J. Moses.

CODE OF ETHICS FOR GOVERNMENT EMPLOYEES SET BY CONGRESS

THE CONGRESS of the United States has established "a charter of conduct against which those in public service may measure their own actions and upon which they may be judged by those whom they serve". The quotation is from the committee report which brought the charter to the attention of the Senate. The charter, entitled Code of Ethics for Government Service is of interest to all of us.

CODE OF ETHICS FOR GOVERNMENT SERVICE

Any Person In Government Service Should:

Put loyalty to the highest moral principles and to country above loyalty to persons, party, or Government department.

Uphold the Constitution, laws, and legal regulations of the United States and all governments therein and never be a party to their evasion.

Give a full day's labor for a full day's pay; giving to the performance of his duties his earnest effort and best thought.

Seek to find and employ more efficient and economical ways of getting tasks accomplished.

Never discriminate unfairly by the dispensing of special favors or privileges to anyone, whether for remuneration or not; and never accept, for himself or his family, favors or benefits under circumstances which might be construed by reasonable persons as influencing the performance of his governmental duties.

Make no private promises of any kind binding upon the duties of office, since a Government employee has no private word which can be binding on public duty.

Engage in no business with the Government, either directly or indirectly, which is inconsistent with the conscientious performance of his governmental duties.

Never use any information coming to him confidentially in the performance of governmental duties as a means for making private profit.

Expose corruption wherever discovered.

Uphold these principles, ever conscious that public office is a public trust.

(This Code of Ethics was agreed to by the House of Representatives and the Senate as House Concurrent Resolution 175 in the Second Session of the 85th Congress. The Code applies to all Government Employees and Office Holders.)

LONG RANGE RADAR FACILITY IS NEARING COMPLETION



INSTALLATION OF THE Long Range Radar facility for training purposes at ANF Branch at the Center, has been installed, inspected, and flight checked. Plans call for instructions on the new equipment to begin with Radar Option Specialty Class No. 127, convening December 22, 1958.

A NEW BUILDING, shown in the accompanying photograph, is nearly complete with modern classrooms and associated laboratories. The antenna system towers 50 ft. high, becoming a prominent landmark at the Aeronautical Center. The building housing the equipment is considerably larger than the normal field installation since it incorporates not only the transmitter room, but also the assimilated "Center". The "Center" accommodates two consoles, a VG Repeater, and two video mappers, in addition to other associated assemblies. A Scan Conversion room, a briefing room, and an air conditioning room are also included in the building. Ample space is provided around the equipment to accommodate groups of students.



INSTALLATION OF THE equipment was under the direction of Mr. Bill Carlton, Raytheon Engineer. Assisting Mr. Carlton during the installation were technical personnel of the Technical Services Branch, with John Pritchett acting as CAA Acceptance Engineer for the installation project.

AN INDICATION OF the size of the ARSR-1 antenna is given by Jack Wichels, Radar Group Supervisor, shown standing on the antenna base, atop the tower.

-A. Schmitt

F. R. HAS RECORD-MAKING CAREER IN AVIATION

A PILOT WHO participated in the first B-36 long range flight and the XC-99 one-hundred-thousand-pound payload lift is Francis R. Keen, AC-230. Starting at the Aeronautical Center in May 1958 - his second career with CAA - Keen is pilot-instructor for Flight Test Branch, Flight Operations and Airworthiness Division.

F. R. STARTED HIS aviation career at Enid a couple of decades ago. After solo he rapidly attained limited commercial, commercial and instructor's ratings, becoming flight operator and manager of Enid's Woodring Field. Prior to World War II he worked in Texas and Oklahoma as instructor for Civilian Primary and Advanced Pilot Training Programs sponsored by the Government for college students. It was the advanced acrobatics program that Keen liked best, as aerial acrobatics are a natural with him. This segment of his flying career was not altogether devoid of romance, as a petite CPT student of his became Mrs. Keen.

RANDOLPH FIELD TEXAS was proving ground for his Army Cadet Flight Instructor's Rating and he busied himself with Cadet training until joining the CAA as Instrument Flight Instructor at the Standardization Center, Houston. Upon Reduction-In-Force at the Center, he started his Test Pilot Career on Consolidated Vultee B-24 Liberators, B-32's and PBV's. With the end of the war transition from military aircraft to commercial airlines, Keen flew East coast to West, made more than 40 trips across the Pacific - U. S. to Tokyo; on domestic airlines, he was Flight Captain on DC-4, DC-3 and Consolidated LB-30, logging hours running into four figures.

AFTER HOURS AND HOURS in 1-2-3 engine aircraft, Keen switched to 6 and 10 engine B-36 and XC-99. With the 6 reciprocating

and 4 jet B-36, known as the Peacemaker longrange powerful deterrant to would-be world aggressors in the early post war years, Keen logged 1400 hours as Test Pilot. He made numerous flights above 50,000 feet and many long range service flights of more than 40 hours duration. Keen participated in the first B-36 long range flight which covered over 10,000 miles non-stop non-refueling. The XC-99 100,000 pound payload lift, a record flight, also is to his credit.

HIS NEXT 2000 hours in the air may be described as Jet Jockey, but in the correct vernacular as Test Pilot on Multi-Jet Stratojet B-47, more specifically, his duties were that of Check Pilot, Instrument and Instructor Pilot and Production Flight Test. Air refueling was frequently accomplished and Keen became proficient at this operation from either front or back cockpit and capable of landing the B-47 equally as well from either cockpit. His flight test work on the B-66 Twin Jet Reconnaissance Bomber was primarily engineering. In addition to his regular duties, Keen found time for T-33 workouts and executive company flights.

TROPHIES, PINS AND Log Books attest to Keen's accomplishments in his field with over 11,000 hours pilot time, ATR, Flight Instructor and Airframe and Mechanic's Ratings. Along the airways he found time for many special courses, at university, commercial aviation, corporations and Military installations.

THE KEEN FAMILY lives at 4241 N. W. 12. Son Bob has a very impressive Log Book for his 14 years with several hours flight instruction and is planning an Aeronautical and Space Career. Daughter Anneene, 10, especially enjoys horseback riding but finds (Continued on page 24)

TF-24 CLASS REPRESENTATIVE OF INTERNATIONAL TRAINEES



TYPICAL OF THE international-student classes conducted by Air Traffic Control was the TF-24 group which started on June 29, 1958. These students, participants in the United States International Cooperation Administration Technical Assistance Program, represent no one particular country. For instance, the TF-24 roster showed two students from Chile, four from Japan, five from Spain and three from Turkey.

DURING THE 17-weeks course, the instruction covers Basic Aerodynamics, and Radar Traffic Control as related subjects. Communications Operating Procedures, Air Navigational Aids, Aviation Weather, Air Traffic Rules, Flight Assistance Service, Air Route Traffic Control, and Airport Traffic Control are the basic Airways Operations Specialist subjects and upon the satisfactory completion of the examination of these subjects, they are given an Airways Operations Specialist Certificate of Competency. Since the main objective of these studies is learning how to control

air traffic, almost one-third of the training is spent in the control laboratories. One-half of this laboratory time is spent in the practice control tower and the other half in the practice control center.

PHASES OF TOWER work learned include the operation of all positions, ground control, approach control, and radar control using ASR radar simulators. Even though the control center is primarily concerned with the control of enroute traffic, it is also necessary to know how to work approaches, not only to serve the airports not having approach control, but also to be better able to work with the towers providing approach control service. Other than learning how to control air traffic, one of the greatest benefits derived from this training is that it is not specialized in one type of control. Rather, all aspects are learned. This means that a graduate can work either in a control tower or control center, and while working in one, he understands the operation of the other.

APART FROM THEIR technical ATC training, the students are being introduced to the American way of living. They are invited to the homes of the people of Oklahoma City, and are taken to many types of club meetings, such as Rotary, Lions, and Kiwanis. Tours to various industrial and governmental establishments are arranged for them. They are very appreciative of all that is done for them and are eager to learn all they can about this country.

TO EXPRESS THEIR appreciation, the International students have established the custom of giving a token gift to the Aeronautical Center upon their graduation. This has generally been in the form of a scroll with the signatures of the students and the flags of their countries. TF-24 presented to the Aeronautical Center a

(Continued on page 26)



ONE OF THE pre-dance parties was given by Mr. and Mrs. John Kempf to say good-bye to two Flight Operations and Airworthiness employees. Division Chief, Warren Smith poses with George Klenke, who transferred to ATC duties in Norfolk (his home town area) and W. H. Fricks, who is now with AMB.

(Braille System - continued from p. 15)

UNTIL NOW, the physical standards for telephone-operator positions have required vision in at least one eye. In the course of its study and observation of blind people at work as telephone operators, the Commission found that many blind persons can do the work satisfactorily with the use of Braille attachments to switchboards, and that such attachments can be obtained for one-position (80-plug) and two-position (160-plug) switchboards. General Services Administration has agreed to make the attachments available without cost to blind operators employed in Government.



EMPLOYEES ASSOCIATION PRE-THANKSGIVING



ASSOCIATION-SPONSORED CHORUS WILL GIVE CHRISTMAS PROGRAM



THE CAA EMPLOYEES Chorus will give three programs in the Auditorium December 19. Florine Crockett and Roy Speakes will sing solos and the audience will join in singing Christmas Carols.

ORGANIZED IN October 1958, this group

(Directed Study - continued from p. 5)

field maintenance personnel were enrolled in some form of home study, and new enrollments are received at a rate of approximately 400 each month.

ACTIVITY IS EXPECTED to increase further as more and more technicians are recruited to fill positions set up for ever-increasing numbers of facilities to be

has worked hard under the direction of Edwin Karhu, Minister of Music, First Methodist Church, and is now ready to make an official appearance.

JACK WEBB, AC-680.1, is president of the Chorus.

maintained. Three new Directed Study courses are being offered for voluntary participation in the FY 1959 program: DS-901, Advanced Applied Mathematics, already released; DS-401, Introduction to Computers, and DS-441, Semi-Conductors and Transistor Circuits.

- L. Daugherty

IGLOOS (?) APPEAR ON CENTER RAMP

IF YOU HAPPEN to be on the ramp just east of Hangar #10 and see an unfamiliar sight, they are not igloos - they are called Air Houses - which have been set up by the Oklahoma Tent and Awning Company for demonstration purposes. These Air Houses, made of treated fabric and inflated with air, are large enough to cover a DC-3 aircraft without the wings. They can be heated and will withstand very high winds and serve to give protection from cold weather while work is being performed on aircraft which cannot be brought into the hangar.

(Class TF-24 - continued from p.20)

miniature Statue of Liberty, designed and sculptured by Mr. Akkokler, a student from Turkey. In place of the torch there is a model jet aircraft. The statue is surmounted by the United States flag, and on the same staff are the flags of Chile, Japan, Spain, and Turkey. The book the Lady carries has the names of the students of TF-24. Below the names, Mr. Akkokler signed it by saying, "How nice it was for me to draw all the nations flags embracing each other around the Statue of Liberty." At the base he quoted another student, "I appreciate the kind assistance and warm hospitality of the CAA". Another student had a poem by Nixon Waterman which he said expresses the feelings of all the students of TF-24

If I knew you and you knew me;
If each of us could clearly see,
As with an inner sight divine,
The meanings of your heart and mine,
I'm sure that we would differ less
And clasp our hands in friendliness;
Our thoughts would pleasantly agree,
If I knew you and you knew me.

"ANGI" PROVES WILLING STUDENT OF FMD DIV.



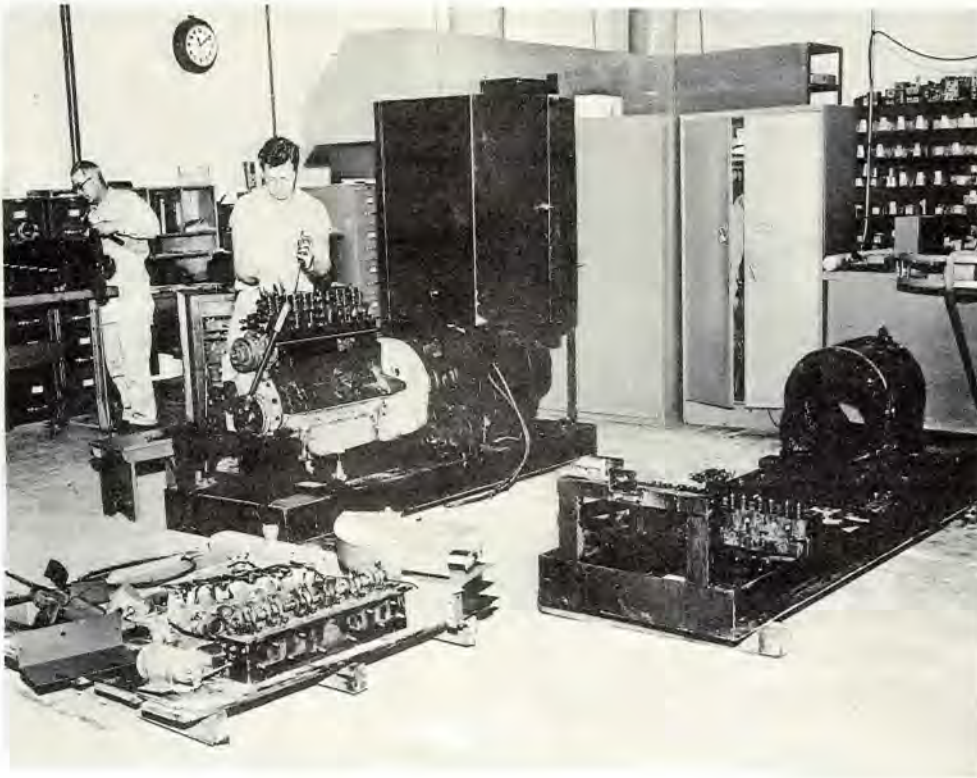
FOR THREE WEEKS, the Facilities Materiel Division has been host to Mr. K. R. K. S. R. Anjaneyulu of India. "Angi" as he is affectionately known to the many friends he has made in FMD, is an employee of the Ministry of Aeronautics of India, and he is studying problems of material handling, storage and procurement, and shop operations of fabrication and maintenance, during his sojourn with FMD.

"ANGI" has proved to an eager student, willing to "pitch in" and help whenever he can. One of the many highlights of his stay with us was his reaction to the United Fund charity drive. When the purpose of the drive was explained to him, he insisted on contributing, calling it a "worthwhile American custom".

WE WILL miss "Angi".

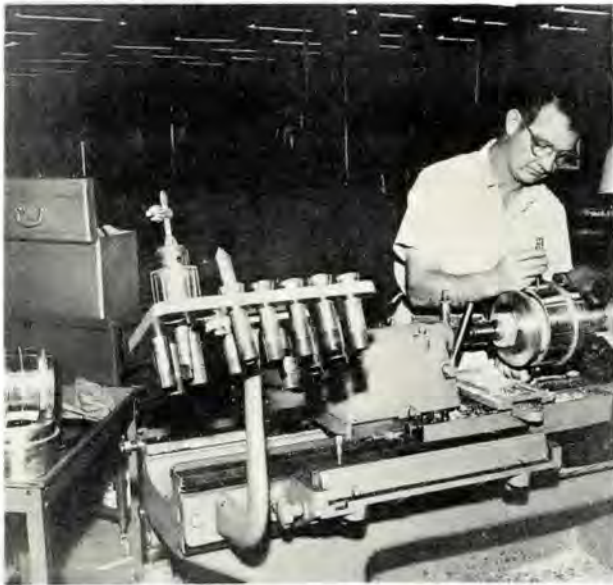
FACILITIES MATERIEL DIVISION OCCUPIES LARGE PORTION OF WAREHOUSE

STRUCTURAL MATERIEL BRANCH has varied operations, a cross-section of which is shown in the following pages -



Left to right: Lewis E. Jackson, Equipment Repairman (Electro-Mechanical) and Troy L. Niles, Electrician.

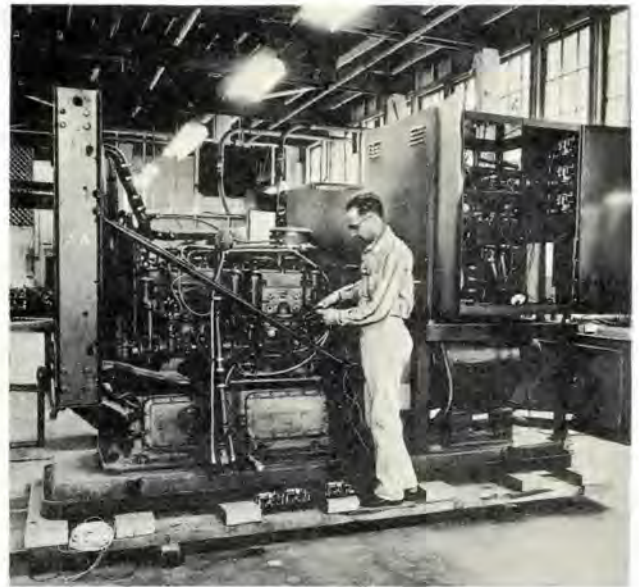
THIS IS A view of a portion of the Electro-Mechanical Shop showing two 8 KVA Engine Generators in various stages of repair. The unit at the left has been disassembled, worn parts replaced, parts cleaned and repaired, and is in the process of being reassembled. The unit on the right has been completely disassembled for repair and reassembly.



Troy W. Clymer, Machinist

THIS IS A view of one of several turning lathes in the Machine Shop. Mr. Clymer is accomplishing one of the final turning operations required to fabricate a center ring for an ASR-2 Pedestal. In the foreground are other rings in various stages of completion.

THESE CENTER RINGS are being fabricated from rough aluminum castings poured by one of the local foundries in accordance with our specifications. These rings will be used to replace ones which have been excessively worn through continuous use in the field installations of the Civil Aeronautics Administration.



Tom Lackey, Electrician

A VIEW OF the Electronics Shop of the Electro-Mechanical Shop prior to our move into the new shop building. Mr. Lackey is making electrical connections for testing this 62 1/2 KVA Stewart-Stevenson Engine Generator. The control cabinet and all the allied components therein were fabricated and/or assembled by the Structural Material Branch Shops.



Left to Right (foreground): George F. Baldwin, Sheet Metal Worker; Wilbur E. Fetter, Sheet Metal Worker; and Melvin E. Lundberg, Machinist

THIS IS A typical view of a portion of the Sheet Metal and Panel Shop. Mr. Baldwin is operating a drill press and counterboring holes in specially designed aluminum panels which will be used to mount electronic equipment necessary for navigational aids.

MR. FETTER IS checking items being mass-produced to assure that they meet with the required standards of excellence. Mr. Lundberg is operating a punch press for the fabrication of small brackets. It may be

noted that this punch press has been modified in the lower portion so as to increase the throat dimension, thereby increasing its capacity. This feature is especially useful in the fabrication of special panels and the like.

IT SHOULD BE noted (upper lefthand corner) that this shop shows 586 days without a lost time accident. This is only a small part of the safety campaign being carried out at the Aeronautical Center.



Left to Right: Melvin E. Lundberg, Machinist, and Thomas E. Watkins, Machinist Helper

THIS IS A view of a portion of the Machine Shop showing a group of multi-band VOR loop antennas just completed.

THESE ANTENNAS ARE of a new design, including an adjustable feature, and silicon polymer insulators not heretofore used. All plates and brackets have been fabricated in the Structural Materiel Branch shops, and assemblage is accomplished in the Machine Shop.

ELECTRONIC TESTS WILL be accomplished by the Electronics Materiel Branch, and special shipping containers will be fabricated for shipment.

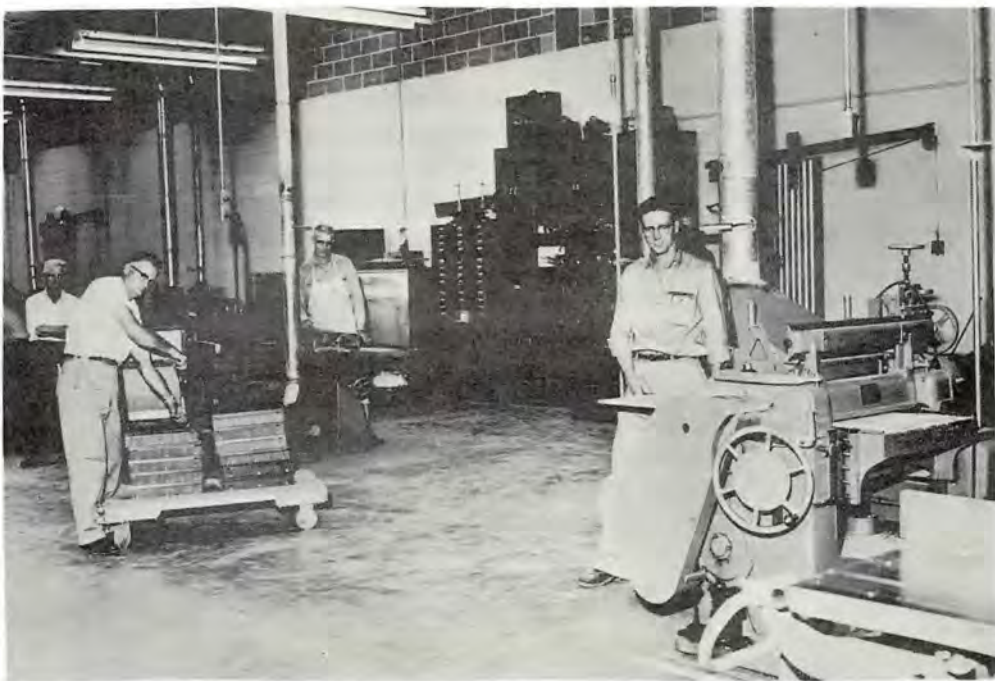
(Opposite page - lower photo)

THIS IS A view of a portion of the Cabinet Shop. "Pop" Jensen is observing and supervising the various operations to determine that maximum safety precautions are being taken. Mr. Clayson is completing the fabrication of special fold-up tables which will hold photo projectors in the ATC Classrooms.

THE OTHER THREE men are operating various pieces of equipment used for the shaping and finishing of wood to be used in the fabrication of any of the varied projects accomplished by this shop.



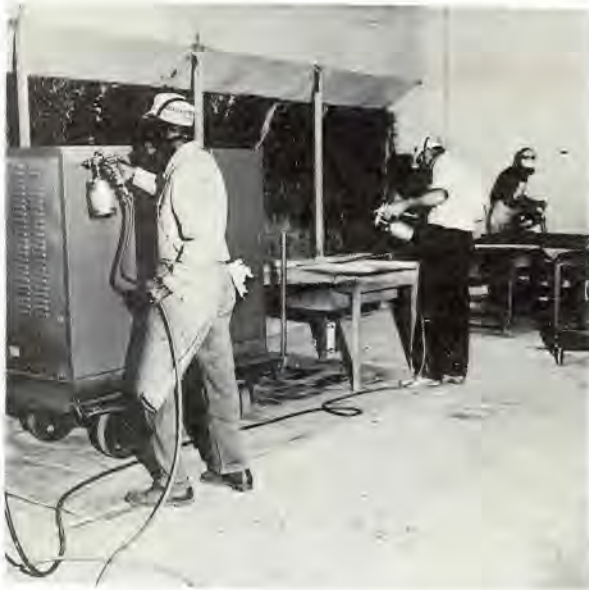
A PORTION of the Area "G" in the warehouse building where the Operations Section stores the wall panels for the pre-fabricated buildings that are used in most of the Air Navigation Facility sites. These panels are used to erect buildings which vary in length and width in multiples of four feet.





PERSONNEL OF THE Operations Section engaged in the warehousing of construction materials. Materials which can be palletized are stored with the aid of a patented system known as "Paltier". The legs come in various heights to accommodate different size pallet loads. A complete stack or any portion thereof can be moved to accommodate changes in warehousing without the necessity of erecting or dismantling separate pallet racks. Both fork lifts work to heights of twelve feet. The small lift handles loads up to 2,000 lbs., and the larger lift handles loads up to 4,000 lbs.

MODIFICATION, REPAIR & DESIGN ARE
IMPORTANT PARTS OF FMD PROGRAMS



Left to right: R. D. Redic, Painter;
Tom M. Gardner, Painter; Mark E.
Hood, Painter.

THIS IS A view of the spray booth in the Paint Shop. Mr. Redic is applying a special wrinkle finish to an electronic equipment mounting rack. Further processing of this finish will include baking in a special oven designed for this purpose. Mr. Gardner is spray-painting parts for corner reflectors with "International Orange". Mr. Hood is applying an acid-resistant finish to battery racks.

THE UNITS being finished are only three of the many thousands of items that go into the overall program of aids to air navigation.



THE TRANSCRIBED WEATHER Broadcast System, designed by engineers of OANF and now being fabricated at FMD, is a new CAA designed facility which will greatly enhance the task of transmitting weather information over established airways radio communication channels.

THIS SYSTEM ALLOWS a station operator to record several separate weather messages on portable magnetic tapes. The information so stored is read out in sequence the complete sequence being replayed continuously. At any time the operator may change the message on any tape without interrupting transmission from the remaining tapes.

THE TRANSCRIBED WEATHER Broadcast System has been designed to more fully utilize existing radio facilities. Switching arrangements have been incorporated which allow meeting the Weather Transmission whenever the radio facility is used for its primary mission of Ground-Air communication.



THE ELECTRONIC equipment shown in the picture are the transmitters for one set of UHF Glide Path Transmitter Equipment, Type TUS. This equipment was flown to Oklahoma City via military aircraft from Ottawa, Canada, for rehabilitation and modification by the Facilities Materiel Division for high priority experimental use by the Airways Modernization Board. The type TUS transmitter, associated components and antennas make up a radio facility for aiding aircraft to land at an airport under conditions of poor visibility. Shown in the picture making adjustment on the transmitters are William C. Alcorn (right) and Truman Frisby. The Glide Path Transmitter is one of the numerous types of equipment used in navigational aids, which are rehabilitated by Facilities Materiel Division, Electronic Modernization and Repair Shop.

(See opposite page - lower picture)

MR. ROBERT BENNETT (left) is working on a Model 15 Page Printer while Mr. William Ulfers is working on a Model 28 Printer in the Facilities Materiel Division Landline Shop. The Model 15 Printer has been given a complete overhaul and standard modifications. This is part of equipment being shipped to Turkey. The Model 28 Printer is being given final adjustments prior to being shipped for installation in a domestic station. The Landline Shop is responsible in both the National Maintenance and Establishment Program areas for the overhaul and fabrication of all printing telegraph, control, air ground console, and similar CAA equipments for both domestic and foreign programs.



CRYSTAL TECHNICIAN Alfred Ray, Jr., is seen here very busy measuring a tiny piece of quartz capable of vibrating four and a half million times per second under appropriate conditions. This delicate piece of mineral is protected in service by a small fully enclosed case. Crystals are used in almost all of our aids to navigation because of their inherent stable vibrating qualities.



TE - 21

Judd W. Ambrose
Robert W. Arnold
Robert D. Atkinson
Charles S. Barker
Joe R. Barker
Samuel R. Barker
C. R. Benson
Stanley G. Berry
Richard D. Bratton
George A. Buttram
Abner L. Camp
Eugene P. Canvey, Jr.
Troy L. Carlisle
Joseph L. Chandler
Ivan D. Christiansen
Allen Herbert Dalley
Harry Warren Daymond
John M. Dekker
Harlan E. Ford
Ervin J. Gallagher
John R. Garrett
Fred M. Gertsen
Edward F. Harold, Jr.
Richard D. Heagle
Bernard V. Herman

Muskegon, Michigan
Laurel, Maryland
Chicago, Illinois
Albuquerque, New Mexico
Memphis, Tennessee
Memphis, Tennessee
Lenexa, Kansas
Tucson, Arizona
Washington, D. C.
Amarillo, Texas
Jacksonville, Florida
Indianapolis, Indiana
Brownsville, Texas
Shreveport, Louisiana
Indianapolis, Indiana
San Lorenzo, California
Waukesha, Wisconsin
Fletcher, North Carolina
San Antonio, Texas
Albuquerque, New Mexico
Denver, Colorado
Miami, Oklahoma
Indianapolis, Indiana
Charlotte, North Carolina
Cleveland, Ohio

TE - 22

William C. Holmes
Frans E. Jens
Owen King Jones
Richard R. Kovanda
Robert J. Lally
Edward F. Landgraf
Edward Lefko
Roch A. LeJeune
Bernard Lengbridge
Jack L. Limbaugh
Henry C. LoPreto
Lowell L. Lunn
Joseph C. McHride
William M. McGee
Edmund McLelland
Richard F. Martin
Louis A. Mantino
Earl James Mentzer, Jr.
Lawrence D. Mills

Memphis, Tennessee
Norfolk, Virginia
Jacksonville, Florida
North Riverside, Illinois
Overland Park, Kansas
St. Paul, Minnesota
Pittsburgh, Pennsylvania
Baton Rouge, Louisiana
Oakland, California
Indianapolis, Indiana
Walsenburg, Colorado
Indianapolis, Indiana
Columbus, Georgia
Columbus, Georgia
Boston, Massachusetts
Caroline, Rhode Island
Lexington, Missouri
Coranopolis, Pennsylvania
Amarillo, Texas

TE - 22 (Continued)

James F. Monroe
Richard Perko
Roger Andrew Peterson
Thomas B. Price
Robert H. Quinn

St. Louis, Missouri
Indianapolis, Indiana
San Antonio, Texas
Albuquerque, New Mexico
Boston, Massachusetts

TE - 23

Gerald William Jacob
Fredrick L. Roberts
Charles John Ross
James V. Rutledge
Edward D. Scherer
James D. Scott
Duane R. Snow
Michael Stauch
Richard F. Sternitzke
Herzel L. Story
William W. Stovell
William O. Teague, Jr.
Lowell B. Thorenson
Donald E. Valentine
Darryl C. Vernon
John M. Vishon
Alex Waren
Richard M. Versel
Harold L. White
Barry M. Wilcox
Delmar C. Williamson
David R. Willis
Ronald A. Wood
John W. Wray
Donald L. Yoder

Kansas City, Missouri
Hapeville, Georgia
Columbus, Georgia
Jacksonville, Florida
Denver, Colorado
Festus, Missouri
Boston, Massachusetts
Maple Heights, Ohio
Pittsburgh, Pennsylvania
Lenoir, North Carolina
Reading, Massachusetts
Albuquerque, New Mexico
Oakland, California
Indianapolis, Indiana
Hayward, California
Minneapolis, Minnesota
Massapequa, New York
Denver, Colorado
Detroit, Michigan
Orleans, Massachusetts
Sunnyvale, California
Denver, Colorado
Meadow, Massachusetts
Miami, Florida
Dayton, Ohio

TE - 24

William Ernest Adkins
Rudolph J. Antonio
Charles B. Battle
Robert M. Beal
Oliver B. Bacon, Jr.
Renard Vernon Benning
Alan L. Bessey
Billy F. Bettie
Merrill W. Bones
Russell R. Boom
Dewey Borellini
Raymond I. Bowes
John J. Brennan
Emory O. Brown
Charles M. Bumstead
Melcolm S. Carney III

Independence, Missouri
Brooklyn, New York
Cleburne, Texas
Phoenix, Arizona
New Orleans, Louisiana
Florissant, Missouri
Kansas City, Kansas
Bristow, Oklahoma
Ottawa, Kansas
Harris, Iowa
Weymouth, Massachusetts
Albuquerque, New Mexico
New York, New York
Jacksonville, Florida
Jacksonville, Florida
Wayne, Michigan

TE - 24 (Continued)

Bill G. Daniels
John H. Daugherty
Warren W. Denney
Richard M. Dixon
Fielding Duayne Draffen
Archib J. Edmiston
Bernard Ralph Edwards

Los Angeles, California
Los Angeles, California
Miami, Florida
Silver Springs, Maryland
Sister, Missouri
Douglas, Alaska
Maywood, Illinois

TE - 25

Leland Thomas Everett
Nicholas J. Fallace
Anthony C. Filippiak
James R. Free
Raymond E. Furgal
John E. Glenn
George W. Granger
William L. Graston
Arnold Guadalupe
Kenneth R. Hampton
LeRoy F. Hildebrand
Robert M. Hober
James C. Holkamp
Duane M. Holmquist
Rodney W. Hunt
Arthur Jenezon
Norris W. Jennings
Helmer C. Jerde
Edward T. Kelvington, Jr.
Walter R. Kenyon
John J. Kontje
Vito Michael Larcari
William St. Charles Lee
Rufus C. Lilley, Jr.

Chicago, Illinois
Yonkers, New York
Washington, D. C.
St. Louis, Missouri
Roseville, Michigan
Cleveland, Ohio
Florence County, So. Carolina
Spokane, Washington
Brooklyn, New York
Washington, D. C.
Spokane, Washington
Washington, D. C.
San Antonio, Texas
Spokane, Washington
Hapeville, Georgia
Lakewood, Ohio
Lavaca, Arkansas
Chicago, Illinois
Alexandria, Virginia
Philadelphia, Pennsylvania
Bayonne, New Jersey
Belleville, New Jersey
Washington, D. C.
Washington, D. C.

TE - 26

Bobby Charles Ramsey
Paul J. Madden
George D. McGuire
John F. Maher
William E. Mathews
Andrew T. Mavrakos
Harold T. Maxwell
William Guy Melton, Jr.
Leon A. Messina
Billy D. Mills
Richard D. Moore
Fredric R. Mueller
Edwin D. McDonald
Robert McGuckin

Memphis, Tennessee
Dorchester, Massachusetts
Los Angeles, California
Flushing, New York
El Paso, Texas
Sanford, Maine
Phoenix, Arizona
San Antonio, Texas
Hammond, Louisiana
Baton Rouge, Louisiana
Opaloka, Florida
Denver, Colorado
Paregould, Arkansas
New York City, New York

TE - 26 (Continued)

Robert E. McKee, Jr.
Gary L. McKinsey
Richard I. MacSpartan
Harold E. Olson
Alexander P. Orr
Donald L. Overstreet
Kenneth E. Peavyhouse
Gerald D. Perrin
Clarence A. Pracher
Robert D. Pesto
Donald G. Ramsey
George J. Reinert

Spokane, Washington
Horton, Kansas
Takoma Park, Maryland
Halstad, Minnesota
Jamaica, New York
Princeton, West Virginia
Memphis, Tennessee
Grand Rapids, Michigan
San Antonio, Texas
Upper Darby, Pennsylvania
Lakewood, Ohio
Lynchbrook, New York

TE - 27

John M. Reynolds
Italo J. Sacco
Bobby G. Scarborough
Charles Jack Stacy
Frank T. Storr
Ronald H. Stevenson
Eugene Edward Strauch
William F. Stewart
Paul E. Studer
Robert L. Sturdevant
Robert E. Tabler
Rudolph C. Trautner
Curtis W. Thomas
Bernard W. Thompson
Albert Mervin Ulrich
Gerald Lee Urban
Ralph A. Urbonus
Kenneth D. Van Dyke
Wesley Wahl
George Alfred Wilson III
Donald J. Winch
Darold J. Woodcock

Phoenix, Arizona
Washington, D. C.
Texas City, Texas
New Orleans, Louisiana
New York, New York
Riverside, California
Cleveland, Ohio
San Antonio, Texas
Junction City, Ohio
Phoenix, Arizona
Jacksonville, Florida
Union, New Jersey
Frederick, Maryland
Sheridan, Indiana
Overland Park, Kansas
Indianapolis, Indiana
Irving, Texas
Indianapolis, Indiana
Washington, D. C.
Washington, D. C.
Strongsville, Ohio
Robertson, Missouri

TE - 28

James E. Atkins, Jr.
Charles R. Bailey
Elton F. Bangster
Daniel E. Bauer
James E. Bjorkman
Lauren R. Boushele
Jack D. Davis
Robert F. Euler
Dexter B. Furnsworth
Thomas C. Finney
Paul W. Flanagan
Carol G. Forrer

Beech Grove, Indiana
San Antonio, Texas
Salt Lake City, Utah
Forest Park, Georgia
Chicago Heights, Illinois
Seattle, Washington
Los Angeles, California
North Vernon, Indiana
Spokane, Washington
Dallas, Texas
Chicago, Illinois
Fort Worth, Texas

TE - 28 (Continued)

Jimmie J. Garrett
Darwin P. Glense
Wallace B. Goetz
James J. Gotschetter
Morris Gene Harper
McIver James Harris, Jr.
John T. Harrison, Jr.
Clyde Frederick Hart, Jr.
Walter Glenn Hatfield
John R. Heck, Jr.
Jack W. Heckman
Ernest N. Henry

College Park, Georgia
Miami, Florida
Spokane, Washington
Milwaukee, Wisconsin
Willard, New Mexico
Dallas, Texas
Memphis, Tennessee
San Antonio, Texas
Memphis, Tennessee
San Antonio, Texas
Spokane, Washington
Muldrow, Oklahoma

TE - 29

J. F. Herrick
Earl E. Hopwood
William Leslie Huguenard
Melville Oraper Jenkins, Jr.
Frank J. Kirkland, Jr.
Marlowe J. Krenik
Francis K. Kuenzle
Francis H. Lawson
Robert V. Lynch
Gordon MacDonald
Fay W. McGuire
Billy S. McKee
Walter B. McShanon, Jr.
Alton L. Matthews
Albert A. Mactingly
James T. Melcher
Duane L. Neffert
Robert Lee Nohrn
Michael R. Noonan
Patrick D. O'Connor
Donald H. Parker
Ralph L. Phillips
Richard B. Pilkenton, Jr.
Lawrence A. Porter

Salt Lake City, Utah
Waco, Texas
Peoria, Illinois
Anaheim, California
Miami, Florida
Le Center, Minnesota
Villa Park, Illinois
Kansas City, Kansas
Lindsay, Oklahoma
Memphis, Tennessee
Salt Lake City, Utah
Kenner, Louisiana
Magnolia, Arkansas
College Park, Georgia
St. Louis, Missouri
Detroit, Michigan
Independence, Missouri
Kansas City, Kansas
St. Louis, Missouri
Memphis, Tennessee
Memphis, Tennessee
Dale County, Alabama
Winston Salem, N. Carolina
New Orleans, Louisiana

TE - 30

Joe A. Redwine
Gael A. Rhodes
Adolph Ricardo, Jr.
Donald L. Roe
Howard Roper
Rolla W. Sanders
Harry D. Schamp
Thomas H. Sharnan
Charles A. Shook
John O. Sibert
Bob R. Simpson
Albert C. Sisson
Joe D. Smith, Jr.
George A. Stathis
John E. Thorsen
Llewellyn E. Tracy
Clifford E. Tubbs
Robert C. Vael
Royce William Ward
Miles C. Wells
John H. Whitfield
Harlan G. Whittington
Conrad R. Wilson

Anson, Texas
Mission, Kansas
New Orleans, Louisiana
New Orleans, Louisiana
Salt Lake City, Utah
Chicago, Illinois
Chicago, Illinois
Memphis, Tennessee
Napaeville, Georgia
Kansas City, Missouri
Hialeah, Florida
Kansas City, Kansas
Greenwood, Arkansas
Salt Lake City, Utah
Jacksonville, Florida
Seattle, Washington
Great Falls, Montana
St. Louis, Missouri
Ypsilanti, Michigan
Howard Lake, Minnesota
Risco, Missouri
San Antonio, Texas
Reade Spring, Missouri

TE - 31

Thomas E. Abbotts
Jack W. Colburne
Robert F. Comar
Pierre John Corretti
Ronald K. Dent
Alfred G. DePadua
Wilbur E. Fearer
Walter W. Gerlach, Jr.
Donald H. Harbeck
Carl R. Hashey
Joseph H. Haubenstain
Walter H. Herbruck
Royce Eastman Johnston
Phillip M. Jones
Charles R. Levato
James Arthur Lucsch
Robert L. McLaughlin
Raymond W. Markham
David J. Nolan
Robert D. Shoeman
Homer E. Stamper
Fred Strother
Ronald Glenroy Taylor
Jeremiah J. Williams

Alexandria, Virginia
Revere, Massachusetts
Pemberton, New Jersey
Pittsburgh, Pennsylvania
Pittsburgh, Pennsylvania
Hillford, Massachusetts
Pittsburgh, Pennsylvania
Pittsburgh, Pennsylvania
Pittsburgh, Pennsylvania
Uxbridge, Massachusetts
Alliquippe, Pennsylvania
Lakeview, Ohio
Enfield, New Hampshire
Washington, D. C.
Mount Vernon, New York
Sewickley, Pennsylvania
Scarboro, Maine
Jessups, Maryland
Pittsburgh, Pennsylvania
Pittsburgh, Pennsylvania
Corasopolis, Pennsylvania
Alexandria, Virginia
Boston, Massachusetts
Denver, Massachusetts

TE - 32

Robert R. Austin
Joseph L. Baker
Charles E. Barker
James C. Barnes
Joseph A. Beaudoin
Albert H. Billington
Robert J. Bogdan
John James Brennan
Anthony D. Campos
Robert Carnahan
Carland Paul Castleberry
Richard S. Colman
Jerry George Coots
Clarence C. Cotten
Philip E. Crawford
Jack E. Davidson
Theodore A. Demeco
Gerald A. DeMio
Donald DiSesa
Wilburn C. Dodd, Jr.
Donald Welch Driscoll
William F. Enton

Memphis, Tennessee
Denver, Colorado
No. Hollywood, California
Providence, Kentucky
Boston, Massachusetts
Denver, Colorado
St. Louis, Missouri
Fort Worth, Texas
Burgess, Pennsylvania
Pittsburgh, Pennsylvania
Memphis, Tennessee
Boston, Massachusetts
Savannah, Georgia
Memphis, Tennessee
Corasopolis, Pennsylvania
Danville, Georgia
Jamaica, New York
Charlestown, Massachusetts
Brentwood, Missouri
Rego Park, New York
Attleboro, Massachusetts
Fort Worth, Texas

TE - 33

Erns H. Evans
Gerald F. Flanagan
Theodore R. Fletcher
Jack I. Foley
John W. Francett
Edgar C. Gomez
Shevwin D. Grassl
Robert A. Grey
Alfred W. Grubbsner
George A. Gullford
Jeremiah Joseph Harrigan
John F. Hicks, Jr.
George A. Hillman, Jr.
Harry Jack Hillman
George W. Hinkle
George C. Hovanec
David B. Holm, Jr.
John D. Hopkins
Gary Jordan
Donald F. Juhnke
Martin J. Kane
Robert F. Kenney
Harry A. Kiepper

Memphis, Tennessee
Providence, Rhode Island
Valley Stream, New York
Great Falls, Montana
Corasopolis, Pennsylvania
Pasadena, California
Downers Grove, Illinois
Chicago, Illinois
Monongahela, Pennsylvania
Seven Hills, Ohio
Brighton, Massachusetts
Billerica, Massachusetts
Coconut Grove, Florida
Long Island, New York
Indianapolis, Indiana
Pittsburgh, Pennsylvania
Clifton, New Jersey
Miami, Florida
Elgin, Ohio
Naperville, Illinois
Nashville, Tennessee
Dumont, New Jersey
Concord, New Hampshire

TE - 34

Andrew H. Kosachik
Raymond W. Kramme
Donald Lazarus
Robert E. Lee
William A. Littell
Otto E. Lusk
Robert John McCann
George G. McCallan
Vincent J. McDermott
Charles D. MacDonald
Joseph E. MacDonald
James H. MacDonnell
Herbert H. Martens
Walter A. Metzger
Charles L. Michel
Richard J. Mick
Richard Andrew Moushegian
William W. Morrison
Bob F. Musolino
Frederick G. Naylor
Cedman E. Neal
Leroy Taylor Norwood, Jr.

Oxford, Michigan
St. Louis, Missouri
Lake Mohopac, New York
Great Falls, Montana
Brentwood, L.I., New York
Memphis, Tennessee
Staten Island, New York
Limestone, Maine
Levittown, L.I., New York
Fitchburg, Massachusetts
Corasopolis, Pennsylvania
Saginaw, Minnesota
San Bernardino, California
Dallas, Texas
El Paso, Texas
Beloit, Kansas
Lovell, Massachusetts
Pittsburgh, Pennsylvania
Jamaica, New York
Rt. 67, New York
New Braunfels, Texas
Memphis, Tennessee

TE - 35

Keith E. Osborne
Robert H. Panas
Stanley J. Paxton
Leslie E. Rainey
Charles H. Sadd
Eldred C. Reddick
Owen Leo Rice
Donald William Robertson
Julius R. Rose
Raymond L. Rose
William D. Ryan
Wilhelm M. Sandman, Jr.
John E. Seaman
Gary D. Sheller
Engel Smith, Jr.
Duane L. Smith
Ronald Devayee Smith
Sally Jane Smith
Harvey F. Savelove
Edmund Spring
Kenneth G. Spates

Miami, Florida
Brooklyn, New York
Congers, New York
E. St. Louis, Illinois
Omaha, Nebraska
Hawthorne, California
Long Island City, New York
Cleveland, Ohio
Opalocka, Florida
Long Beach, California
West New York, New Jersey
Atlanta, Georgia
Uniondale, New York
Corasopolis, Pennsylvania
Wooster, Ohio
Lakemore, Ohio
Jamaica, New York
Pedro Valley, California
Brooklyn, New York
Brooklyn, New York
Pittsburgh, Pennsylvania

TE - 36

Edward A. Stanbury
Bernard G. Stoecker
Anthony W. Sullivan
Bill Edward Tacklock
Thomas Tatum
Gordon T. Taylor, Jr.
Kenneth Gray Thomas
Ralph J. Tonjes
Joseph Torres
Evangelos Tyrus
Lionel A. Veillevx
Richard J. Walsh
Clarence E. West
Paul A. Wetzel, Jr.
Alfred L. White, Jr.
Charles E. Whitehead
Donald C. Wilson
James F. Wolter
Homer L. Zacharias
Sam C. Zakorian
Frederick Holts Volk

Chester, Pennsylvania
Arvada, Colorado
Babylon, New York
Columbus, Indiana
Brooklyn, New York
Reading, Massachusetts
Glade Spring, Virginia
San Lorenzo, California
Jamaica, New York
Lowell, Massachusetts
E. Boston, Massachusetts
Liberty, Pennsylvania
Chicago, Illinois
Pontiac, Michigan
Woburn, Massachusetts
Great Falls, Montana
Beech Grove, Indiana
Brooklyn, New York
Denver, Colorado
Park Forest, Illinois
Attica, New York

TE - 37

A. J. Abhadesse
Albert A. Allen, Jr.
Charles L. Bell
Bobbie K. Barnes
J. Luther Bell
Sherann L. Bottrell
Paul L. Breedlove, Jr.
William Aubrey Bryons
Hertrand J. Buchhut
Joseph Chaloka
William Grundy Gale, Jr.
Ralph A. Gomer, Jr.
Francis J. Crenna
Glenn Critch
William C. Crouson
James C. Dickerhoff
James P. Dixon
Alan L. Dochen
John W. Downey
Warren A. Driscoll
Vernon D. Eilers
Robert E. Ellis
Gerald Q. Fagnan
Clifford C. Frederiksen

Jacksonville, Florida
St. Louis, Missouri
El Paso, Texas
El Paso, Texas
Atlanta, Georgia
El Paso, Texas
Indianapolis, Indiana
Fort Worth, Texas
Dewitt, Michigan
Joliet, Illinois
Oxford, Mississippi
Fort Worth, Texas
Bessemer, Michigan
Chamblee, Georgia
Greenway, Arkansas
Indianapolis, Indiana
Daly City, California
Pierce, Nebraska
Wray, Colorado
Kenner, Louisiana
Chicago, Illinois
Memphis, Tennessee
Santa Barbara, California
Florissant, Missouri

TE - 38

Ronald Maurice Gaye
Gower C. Greiner, Jr.
Avezil Glenn Griffin
Gary P. Hart
LaVon R. Hauman
Glenn Eldon Holmbeck
Milburn D. Hughes
Ernest F. Hutchings
Paul E. Jeroninski
Roger M. Johnson
Roy N. Johnston
Floyd M. Knell
Guy W. Lanon
Michael A. Largo
Ronald F. Leoni
Daniel M. Lewis
Charles Eugene Livingston
William R. Love
Wesley L. McEwan
A. L. (Mickey) McGuire
William G. Mahone
Patrick A. Mahoney
Ernest S. Massey

Jacksonville, Florida
Oakland, California
Aldershot, Washington
San Antonio, Texas
Kewanee, Indiana
Kansas City, Kansas
Kansas City, Missouri
Countryside, Indiana
Salt Lake City, Utah
Union City, Georgia
Sunnyvale, California
Kent, Washington
Belleville, Illinois
Kansas City, Missouri
Rayland, Ohio
Magna, Utah
Fort Worth, Texas
Hemli, Florida
Provo, Utah
Portland, Oregon
Chicago, Illinois
Parral Chihuahua, Mexico
Kansas City, Kansas

TE - 39

David Robert Moriarty
Donald M. Morris
Otto W. Mueller, Jr.
Thomas Jacob Nottingham III
Edward J. O'Brien
Harlin W. Parsons
Gordon Lee Pfeiffer
Stranville Perrie Phillips, Jr.
W. Glenn Piner
Raygen A. Pyle, Jr.
Charles D. Raymer
Keith R. Rogers
Norman W. Rosenberg
Henry Searle, Jr.
James D. Sawyer
John L. Sheridan
Clyde Sherrill
Robert G. Simon
Dick F. Smeage
Benjamin C. Sofge
Carl F. Stengele
Leonard J. Tepole
Gerard C. Thibault
Lewis A. Unconer
Murray Albert Weiss

Irvine, California
Aurora, Illinois
Fort Worth, Texas
Norfolk, Virginia
Fall River, Massachusetts
El Paso, Texas
Granite City, Illinois
Norfolk, Virginia
Bunker Hill, Kansas
El Paso, Texas
Oakland, California
San Antonio, Texas
Summit, Illinois
Detroit, Michigan
Fort Worth, Texas
New York, New York
Holtville, Indiana
Norfolk, Virginia
Detroit, Michigan
Jacksonville, Florida
Chicago, Illinois
Pittsburgh, Pennsylvania
Garden, Michigan
Kent, Ohio
Philadelphia, Pennsylvania

TE - 40

Eugene H. Akers
Charles C. Arledge
Manuel B. Arons
James E. Avery
William S. Bain
Francis James Barabett
James E. Beard
Lyle E. Benson
Jimmie D. Bennett
Edwin W. Bradford
Jack D. Brown
Harry Lee Burge, Jr.
Kenneth Ray Byers
David E. Canada
Lawrence B. Capes
Joseph F. Carpenter
Raymond A. Cheson
Vance T. Chisom
William D. Cissel
Archie E. Clark
Donald S. Cook
Arnold A. Cole
Burt Craig, Jr.
Lloyd W. Crabtree
William J. Creaman
Bermond E. Crocker

Oakland, California
Memphis, Tennessee
Chicago, Illinois
Ball Ground, Georgia
Miami, Florida
Minneapolis, Minnesota
Tallahassee, Florida
San Diego, California
El Paso, Texas
New Orleans, Louisiana
Forest Park, Georgia
Montgomery, Alabama
Kent, Ohio
Hapeville, Georgia
Albuquerque, New Mexico
Memphis, Tennessee
Anderson, Indiana
Indianapolis, Indiana
Mt. Rainier, Maryland
Memphis, Tennessee
Memphis, Tennessee
Phoenix, Arizona
Phoenix, Arizona
Oakland, California
Cleveland, Ohio
New Orleans, Louisiana

TE - 41

Hathen E. Curry
John Marvin Daniel
Robert E. Davis, Jr.
Harry E. Decoteau, Jr.
Downie D. Dean, Jr.
William W. Dickson
Frank Henry Dixon
Dale Dornin
Edwin H. Dorsey
Lawrence G. Downs
Bob D. Eastwood
Henry Gabeldon
Donald L. Gaddy
John A. Gemata
Gary Melvin Gores
Peter F. Hahn
Doyle W. Hall
Francis P. Haroy
Daniel Haywood
Donie G. Heavner
Morace B. Hicks, Jr.
Richard M. Hovis
Willard C. Hoy
Floyd W. Jacobus
Lloyd J. Johnson
Frank Edward Kaepproew

Cameron, Missouri
College Park, Georgia
El Paso, Texas
San Antonio, Texas
Jacksonville, Florida
Supulvedo, California
Fort Worth, Texas
Cleveland, Ohio
Oakland, California
E. St. Louis, Illinois
Oklahoma City, Oklahoma
Albuquerque, New Mexico
Plainfield, Indiana
Chicago, Illinois
Detroit, Michigan
Owatonna, Minnesota
San Antonio, Texas
Danvers, Massachusetts
Wilbraham, Massachusetts
Albuquerque, New Mexico
Atlanta, Georgia
Chicago Heights, Illinois
New Orleans, Louisiana
Tucson, Arizona
Dinubad, California
Chicago, Illinois

TE - 42

Dwain L. Lankford
Harold E. LeRoux
Arthur J. LeBlanc, Jr.
Austin L. Leggett, Jr.
John J. McCarte
William C. McDermott
John J. McLaughlin
Blanchard Guy McManus
James Warden McQuigg
Glenn L. McWilliams
John Martino
Joseph F. Meusel
Fred C. Milner
William T. Morgan
Jack G. Murnan
Donald N. Orzechowski
James Cecil Perry
Reford L. Perry
Richard L. Pettit
Walter Harris Piermon, Jr.
Andrew J. Pinkard, Jr.
Beverly Bill Pryor
Keith A. Reinsner
James A. Richer
Richard W. Roy

El Paso, Texas
New Orleans, Louisiana
Gardner, Massachusetts
Miami, Florida
San Francisco, California
Phoenix, Arizona
Maywood, Illinois
Tempe, Arizona
New Orleans, Louisiana
Houma, Texas
Beverly, Massachusetts
Jacksonville, Florida
Fort Worth, Texas
Atlanta, Georgia
Kansas City, Missouri
Yonkers, New York
Ashe County, N. Carolina
Memphis, Tennessee
Phoenix, Arizona
Lafayette, Indiana
Monaca, Pennsylvania
San Antonio, Texas
Indianapolis, Indiana
Memphis, Tennessee
Grosse Pointe Woods, Michigan

TE - 43

Joseph G. Saraceno
Charles Smith
Thomas Allen Smith
Ronald T. Sperling
Edward M. Stevens
Norman R. St Pierre
Alan D. Sutor
Leo C. Tames
Albert A. Townsend
Malcolm T. Turner
Sam Vlasich
Gordon T. Wagner
William P. Waring
Paul E. Welch
Jackie L. West
John M. Whitmore
Clifton E. Williams
Garvis V. Williamson
James D. Willis
Robert L. Wold
Kenneth F. Wolfe
Jesse H. Wright
Lawson C. Wright
Floyd R. Young, Jr.
Gene D. Yust

Salem, Massachusetts
Hawesville, Florida
Lake Charles, Louisiana
Chicago, Illinois
Urbana, Illinois
Boston, Massachusetts
Miami, Florida
Kansas City, Missouri
Albuquerque, New Mexico
San Antonio, Texas
Comptallos, Florida
Fort Worth, Texas
Washington, D. C.
St. Louis, Missouri
Norfolk, Virginia
San Antonio, Texas
Scottsdale, Arizona
Memphis, Tennessee
Memphis, Tennessee
New Orleans, Louisiana
Pittsburgh, Pennsylvania
Miami, Florida
Terre Haute, Indiana
Fort Worth, Texas
St. Louis, Missouri

John F. Adams
Billy C. Ayers
Paul H. Bankson
Edwin E. Bauman
Nerman C. Bouwhuis
Homer C. Britton, Jr.
John G. Brooke
Channing M. Brown, Jr.
Guy R. Brown
Kenneth W. Brynstad
Calvin Buffington
Ralph C. Burton
Wesley D. Butler
Alford B. Chapman
Rulon W. Cluff
Charles D. Coher
John E. Coleman
Robert A. Condiff
Thomas C. Cramer
Ralph A. DeVore
Richard D. Dickerson
Ernest D. Dube
Dan A. Dunn
Keith V. Ellertson

Newman, Illinois
Memphis, Tennessee
Aurora, Colorado
Indianapolis, Indiana
Denver, Colorado
Chicago, Illinois
McAllen, Texas
El Paso, Texas
Bellwood, Illinois
Seattle, Washington
New Orleans, Louisiana
Minneapolis, Minnesota
Denver, Colorado
New Orleans, Louisiana
Salt Lake City, Utah
Gainesville, Georgia
Jacksonville, Florida
St. Paul, Minnesota
St. Louis, Missouri
New Orleans, Louisiana
Havre, Illinois
Worcester, Massachusetts
Hurst, Texas
Salt Lake City, Utah

Gene W. Edwards
Ronald W. Exley
Richard Lee Fallow
John P. Franklin
Carl L. Gillies
Sidney L. Gilman
David M. Gizzi
Robert A. Hague
Thomas Martin Hanley, Jr.
Robert F. Hilton, Jr.
Walter C. Holthausen
Charles E. Huber
Donald F. Jackson
Theodore Robert Javor
Joel C. Jensen
John D. Johnson
Noel F. Keane
Calvin L. Knutson
Alfred A. Lee
Robert S. Lee
George M. Lever
James T. Lewis
Benjamin W. Lovelless
Laurence Stanley McCall

Miami, Florida
Culver City, California
Minneapolis, Minnesota
Crawfordsville, Indiana
Roy, Utah
Fort Worth, Texas
Detroit, Michigan
Olathe, Kansas
Chicago, Illinois
Charlotte, N. Carolina
St. Louis, Missouri
New Orleans, Louisiana
Smyrna, Georgia
Chicago, Illinois
Sandy, Utah
Seattle, Washington
Webster Groves, Missouri
Minneapolis, Minnesota
Provo, Utah
Atlanta, Georgia
San Antonio, Texas
Fort Worth, Texas
Frankfort, Indiana
San Antonio, Texas

Walter G. Roane
Donald D. Robinson
John D. Rodgers
Robert L. Schultz
James O. Scott
Robert H. Slack
Gordon W. Slade
Kenneth W. Smith
Richard C. Snider
Robert B. Spaulding
A. Dewaine Spicer
Donald A. Suckow
John Paul Sullivan
James Clifford Tedder
Pecceck W. Wenzel
Von W. Waldorf
Harry D. Walker
Kenneth K. Walker
Wesley L. Waters
LeRoy K. Watta
Homer R. White
Carlton Andrew Williford
Robert J. Woodward
Andrew F. Wrisinger

New Orleans, Louisiana
Denver, Colorado
Kansas City, Missouri
Chicago, Illinois
Chicago, Illinois
Des Moines, Illinois
San Antonio, Texas
Jacksonville, Florida
Seattle, Washington
Toledo, Ohio
St. Louis, Missouri
Hammond, Indiana
Winnebago, Minnesota
Jacksonville, Florida
Wayne, Michigan
Seattle, Washington
Salt Lake City, Utah
Langdon, Missouri
San Antonio, Texas
San Rafael, California
Memphis, Tennessee
San Antonio, Texas
Flat Rock, Michigan
Lexington, Missouri

John J. Canham
Roy A. Dallago
Joseph F. Gallagher
Alfred T. Halvorsen
Donald M. Hrasca
Thomas D. Hunter
Gordon L. Hughes
Francis J. Keeler
Robert S. Kilpatrick
Gene W. Kuhl
Charles Robert Mailley
Larry Margid
C. Mirabito
Robert A. Philbin
William S. Post
Malvin Sumstein
Albert Sabo
George A. Simmons
Martin M. Slavin
Arthur P. Tuberman
Richard B. Vogt
Franklin R. Young
John A. Zuscov, Jr.

Norfolk, Virginia
North Bergen, New Jersey
Dorchester, Massachusetts
Levittown, New York
Monessen, Pennsylvania
Corapolis, Pennsylvania
Portsmouth, Virginia
Easton, Massachusetts
New York, New York
Alexandria, Virginia
Deer Park, L.I., New York
Brooklyn, New York
Boston, Massachusetts
Milford, Massachusetts
East Foxboro, Massachusetts
Flushing, New York
Norfolk, Virginia
Philadelphia, Pennsylvania
Jamaica, New York
Bayside, New York
Whitestone, New York
Hampton, Virginia
Stratford, Connecticut

William J. McCann
John D. McClure
George Allen McKinney
Everett F. Malone
Robert R. Mauntel
Chester L. May
Warren Glenn Miller
Elsie S. Minor
Richard D. Moody
Robert J. Moore
James Robert Moss
John C. Neal, Jr.
James W. Newton, Jr.
Kernit F. Nourse, Jr.
Assel J. Olsen
Fred G. Palmer
Howard L. Payne
F. J. Prendergast, Jr.
Gerald D. Probst
Herbert M. Quinn
LaVar F. Reese
Jack W. Reid
Bobby B. Rice
Robert J. Rinehart

San Antonio, Texas
San Antonio, Texas
Memphis, Tennessee
Glendora, California
Dixon, Illinois
Minneapolis, Minnesota
San Antonio, Texas
Jacksonville, Florida
Arlington, Texas
Seattle, Washington
Ogden, Utah
Long Beach, California
Baton Rouge, Louisiana
Los Angeles, California
Salt Lake City, Utah
Waynesville, N. Carolina
Denver, Colorado
Los Angeles, California
Royal Oak, Michigan
DeKalb, Illinois
Salt Lake City, Utah
Opalouka, Florida
Los Angeles, California
Kansas City, Missouri

SEPTEMBER GRADUATES IN DIRECTED STUDY COURSES IN 200 SERIES

NAME	REG.	STATION	NAME	REG.	STATION
DS-201					
Hajje, Joseph	OIC	Lebanon	Leedom, James E.	5	Fairbanks, Alaska
Hyde, Richard H.	4	Ontario, Calif.	Rogers, Roy C.	2	Lometa, Texas
Kruze, Emil H.	3	Rochester, Minn.	VonHartman, Vadim	6	Honolulu, Hawaii
DS-202					
Allison, James E.	4	Riverside, Calif.	Schmidtman, R. V.	3	Alligan, Mich.
Higbee, Kenneth G.	AC	Okl. City, Okla.	Turner, Marshall B.	3	Cedar Rapids, Iowa
Limbaugh, Robert L.	4	Pueblo, Colo.	Wanaka, Roy A.	4	Seattle, Wash.
Murdock, E. G.	AC	Okl. City, Okla.			
DS-203					
Clampitt, Homer D.	2	Eldorado, Ark.	Hyde, Richard H.	4	Ontario, Calif.
Cullers, William E.	4	Half-Moon Bay, Calif.	Kisorek, Raymond J.	4	Daggett, Calif.
Davis, Robert W.	4	Las Vegas, Nev.	London, J. J.	AC	Okl. City, Okla.
DeMoss, William G.	2	Memphis, Tenn.	Middlebrook, Don G.	4	Los Angeles, Calif.
Donaldson, Harry B.	4	Farmington, N.M.	Nobles, George	4	Las Vegas, Nev.
Fankhauser, Robert L.	4	Spokane, Wash.	Novak, Orin F.	AC	Okl. City, Okla.
Ference, Joseph	1	Brooklyn, N.Y.	Ohata, Harold B.	6	Aiea, Oahu, T.H.
Gaugl, Edward M.	4	Eugene, Ore.	Willis, Kenneth V.	2	Tampa, Florida
Gonzales, Jorge L.	2	San Juan, P. R.	Yee, Charles S.Y.	6	Wahiawa, Oahu, T.H.

DS-204

Carson, Robert G.	3	Liberty, Mo.	Peterson, Ramon W.	3	Battle Creek, Mich.
Hajje, Joseph	OIC	Lebanon			

DS-208

Catron, Marvin M.	2	Chattanooga, Tenn.	Oya, Ernest M.	6	Pearl City, Hawaii
Gian, Edward	4	San Diego, Calif.	Prchal, E.	AC	Okl. City, Okla.
Clampitt, Homer D.	2	El Dorado, Ark.	Sargent, George H.	4	Carlsbad, N.Mex.
Higbee, Kenneth	AC	Okl. City, Okla.	Williams, Herbert Q.	6	Kailua, Hawaii

SEPTEMBER GRADUATES IN DIRECTED STUDY COURSES IN 300 SERIES

DS-301

Burke, William J.	1	Watervliet, N. Y.	Hefler, Vernie R.	2	Midwest City, Okla.
Craig, Ralph C.	1	Nantucket, Mass.	Mogensen, Harry T.	4	Elko, Nevada
Grebe, Edgar G.	3	Bradford, Ill.	Stevenson, Clarence	4	McChord AFB, Wa

GM-3 10/13 - 10/24

Anthony V. Carter	Bethany, Okla.
Donald W. Dwyer	Washington, D.C.
Jack W. Einsteln	Washington, D.C.
Walter L. Heppenstall, Jr.	Brantly Helicopter Corp.
William T. Jarrett	Washington, D.C.
Howard J. Maley	Sioux Falls, S. Dakota
Deward R. Pressley, Jr.	Kansas City, Mo.
Harry W. Schuermeyer	Anchorage, Alaska
William C. Wallace	Okla. City, Okla.

AE-1 10/27 - 11/7

Lawrence N. Bass	Ft. Worth, Texas
Stan Siggs	Kansas City, Mo.
John F. Vogel	New York, N.Y.
Stanley Yagiels	Los Angeles, Calif.

INDOCTRINATION COURSE - AIRFRAME & EQUIPMENT
10/10/58

Irwin N. Brunner	New York, N.Y.
Frank Micka	Washington, D.C.

EE-2 11/10 - 11/21

S. J. Atkinson	Miami, Florida
Edmund Benben	St. Louis, Mo.
Arthur H. Bostelman	New York, N.Y.
C. S. Brower	Miami, Florida
Richard B. Coleman	Dallas, Texas
Leonard W. Culpepper	Washington, D.C.
E. W. Morris	Ft. Worth, Texas
George Oleksa	Bethpage, N. Y.
Stanley J. Rogers	Kansas City, Kan.
Russell L. Van Note	Reston, Washington
Demetrio Rouda(Observer)	Costa Rica

GM-4 11/10 - 11/21

Frank W. Andrews	Birmingham, Ala.
Joseph R. Beals	Miami, Florida
William E. Burton	St. Louis, Mo.
James C. Clark	Atlanta, Georgia
Don Jordan	Salt Lake City, Utah
Roman B. Mueller	Kansas City, Kan.
F. W. Robinette	Long Beach, Calif.
R. C. Royal	San Antonio, Texas
Frank W. Skopinaki, Sr.	Detroit, Mich.

MF-1 9/22 - 10/3

Richard J. Bowers	San Diego, Calif.
William H. Meselick	Garland, Texas
Dale A. Miller	Wichita, Kansas
Ben B. Rock	Windsor, Conn.

PP-3 9/29 - 10/10

Michael Brega	San Diego, Calif.
Glenn H. Burrow	Tulsa, Okla.
K. S. Cooper	Chicago, Ill.
Vernon M. Denison	Juneau, Alaska
Harry D. Estey	Washington, D.C.
James A. Fisk	Washington, D.C.
C. D. House	New York, N.Y.
J. M. Leslie	Ft. Worth, Texas
J. J. Manning	Detroit, Mich.
Ben F. Meyer	Shreveport, La.
Troy N. Thweatt, Jr.	Kansas City, Kan.
Charlie J. Wertman	Seattle, Wash.

PP-3 10/13 - 10/24

Kenneth E. Albright	Miami, Florida
R. L. Barner	Washington, D.C.
Milton S. Beal	Garland, Texas
Irving Birnbaum	Washington, D.C.
Harold Z. Buck	Van Nuys, Calif.
Hayward S. Florer	Ft. Worth, Texas
Richard Gersseuski	Washington, D.C.
Merrill H. Griffith	Los Angeles, Calif.
James T. Morse	Minneapolis, Minn.
Marion Shaw, Jr.	Chicago, Ill.
Ross R. Spencer	Kansas City, Mo.
Ed. L. Turner	San Antonio, Texas

EE-1 10/13 - 10/24

W. L. Benjamin	Kansas City, Kan.
Charles S. Boynton, Jr.	Raleigh, N.C.
Martin C. Casey	Jacksonville, Florida
John L. Clark	Indianapolis, Ind.
John McClintock	New York, N.Y.
Edw. H. Rickena	Helena, Mont.
Felix E. Sanduski	Columbus, Ohio
Paul R. Stelmann, Jr.	Richmond, Va.

EE-4 12/1 - 12/19

Robert H. Glaske	Dallas, Texas
L. E. Dickey	Los Angeles, Calif.
James L. Hemingway	Washington, D.C.
E. E. Kilbride	San Francisco, Calif.
John W. Lamar	Kansas City, Kan.
Robert O. Loya	Atlanta, Georgia
James D. Odum	New York, N.Y.
Les Saucka	Denver, Colo.
John N. Temts	Okla. City, Okla.

FP-3 12/1 - 12/12

Andrew G. Britz	Los Angeles, Calif.
Henry A. Curtis	Ypsilanti, Mich.
Daniel L. Hirsch	Kansas City, Mo.
Anthony Maugeri	Pittsburg, Penn.
B. T. Nacht	Van Nuys, Calif.
Harry A. Kircher	London, England
Robert A. Kuehn	Chicago, Ill.
Robert A. Proctor	Ft. Worth, Texas
Robert E. Rathburn	San Francisco, Calif.
Robert A. Schilling	New York, N.Y.
John L. Winder	Burbank, Calif.

GM-8 12/1 - 12/12

Robert A. Byrd	Portland, Ore.
Lloyd E. Cantrell	Cedar Rapids, Iowa
H. G. D'Estout	San Diego, Calif.
Harvey P. Gasaway	Nashville, Tenn.
W. A. Glenn	Washington, D.C.
Edwin R. Michelsen	South Bend, Ind.
Charles Pechanec	Houston, Texas
B. S. Van Arsdale	Philadelphia, Penn.

Observers

Francisco O. Auletta	Buenos Aires, Argentina
Luis R. Fossati	Buenos Aires, Argentina
Col. Sootorn Sundarakul	Bangkok, Thailand

AIRCRAFT BRANCH GRADUATES

EE-4 9/2 - 9/19

Kenneth E. Albright	Miami, Florida
Emil A. Bjorkman	Minneapolis, Minn.
Hyron B. Bodiford	Winston-Salem, N.C.
Francis B. Buckner	Honolulu, T.H.
Wm. E. Cunningham	Paris, France
T. M. Lurry	New York, N.Y.
Gerard S. Miller	Newark, N.J.
W. E. Rogers	San Francisco, Calif.

AE-1 9/8 - 9/19

Daniel M. Davis	Los Angeles, Calif.
Bernard Grochal	Washington, D.C.
Calvin L. Stoner	Fort Worth, Texas
James N. Vaughn	Kansas City, Mo.

PP-3 9/8 - 9/19

Browning Adams	Washington, D.C.
Richard S. Beckley	Miami, Florida
Hiram Brolles	Paris, France
C. S. Brower	Miami, Florida
George A. Fisher	New York, N.Y.
Thomas A. Fydel	Los Angeles, Calif.
H. B. Mitchell	Kansas City, Kan.
Wendell R. Moore	Minneapolis, Minn.
Harry A. Parker	Los Angeles, Calif.
Jack L. Foteat	Atlanta, Ga.
Howard W. Simcox	Washington, D.C.

GM-8 9/22 - 10/3

T. J. Callahan	Miami, Florida
Sam J. Corso	West Chicago, Ill.
Jules DeCrescenzo	Teterboro, N.J.
C. M. Demarce	Los Angeles, Calif.
Melvin F. Derry	Fairbanks, Alaska
L. R. Etchem	Kansas City, Mo.
Francis W. Falconer	Norwood, Mass.
John L. Gibson	Washington, D.C.
Thomas R. Jones	Washington, D.C.
Quay Lyle	Little Rock, Ark.
Roy Outcen	Ontario, Calif.

NAME	REG.	STATION	NAME	REG.	STATION
Bates, James L.	2	Meridian, Miss.	Lobo, Eduardo	OIC	Madrid, Spain
Biernat, Norbert F.	3	Park Ridge, Ill.	Middleton, Wm.R.	2	Knoxville, Tenn.
Bischoff, Dale H.	3	Minneapolis, Minn.	Navre, Philip	1	LaBuardia, N.Y.
Boisvert, Albert E.	4	Tucuman, N.M.	Noy, Clyde F.	4	Orants, N.Mex.
De LaCruz, Jose-María	OIC	Madrid, Spain	Puch, Aurelio S.	OIC	Madrid, Spain
Gilliard, Joseph A.	1	Allentown, Pa.	Santiago, Francisco	OIC	Spain
Greene, John D.	2	Galveston, Texas	Snoddy, James E.	2	Pine Bluff, Ark.
Gutierrez, Alirio	2	Colombia	Steward, Charles W.	4	Los Angeles, Calif.
Keltz, Carl I.	4	Bellington, Wash.	Tamayo, William	OIC	Colombia

COMMUNICATIONS EQUIPMENT CLASS 112 CONVENED SEPT. 8, TO DEC. 12, 1958

Burrows, Robert L.	3	Bismarck, N. Dak.	Molinda, John	1	Pittsburgh, Pa.
Campbell, Ona Y.	1	New York, N. Y.	Myers, Lyle D.	4	Phoenix, Arizona
Chapman, Laurence D.	3	Battle Creek, Mich.	Radcliff, Gerald E.	4	Redmond, Oregon
Evans, Lyle V.	2	Fort Worth, Texas	Reese, Clarence G.	4	La Junta, Colo.
Flanagan, Patrick J.	1	Elmira, N. Y.	Rogers, Roy C.	2	Lometa, Texas
Gamble, Harry	2	Lake Charles, La.	Ristow, John A.	3	Eau Claire, Wis.
Gogniat, Marc M.	4	Boise, Idaho	Rosemark, Vincent K.	4	Stockton, Calif.
Hammmond, Oscar C.	3	Romulus, Mich.	Schwabe, Herbert L.	2	Hunter AFB, Ga.
Hendricks, Glen M.	2	Tinker AFB, Okla.	Sershen, George F.	1	Jamaica, L. I., N. Y.
Hoffaker, Merlin D.	6	Puapua, Maui, T.H.	Shearson, Kenneth R.	2	Nashville, Tenn.
Jones, Leo F.	1	Worcester, Mass.	Slate, Curtis J.	4	Aracata, Calif.
Kam, George A.	6	Honolulu, Hawaii	Sowers, John T.	2	W. Palm Beach, Fla.
Kepner, Arthur C.	3	Grand Forks, N.D.	Szaydowski, John J.	1	Glen Falls, N. Y.
Kling, Richard W.	3	Chicago, Ill.	Walcott, Melvyn B.	4	Albuquerque, N.M.
Long, James W.	2	New Orleans, La.	Wilkinson, Walter F.	1	Elkins, W. Va.
McCurdy, Jeddy D.	4	Pocatello, Idaho			

DME CLASS 126 CONVENED AUGUST 25, TO OCTOBER 17, 1958

Anderson, Carl S.	1	Portland, Maine	Hollis, Thomas L.	5	Anchorage, Alaska
Barker, James T.	1	Washington, D. C.	Kramer, Harold A.	2	Fort Worth, Texas
Beach, Wayne L.	3	Dodge City, Kansas	McKay, Carl R.	4	Salt Lake City, Utah
Cassidy, Irvin H., Jr.	3	Malden, Missouri	Morgan, Alfred C.	4	Butte, Montana
Clampitt, Homer D.	2	El Dorado, Ark.	Richey, William L.	4	Truth or Clooseq NM
Davis, Henry L.	1	Cleveland, Ohio	Sarnwick, Henry W.	3	Fargo, N.D.
Dennis, James J. D.	4	Los Angeles, Calif.	Tharp, John H.	4	Billings, Montana
Gross, Richard W.	4	Spokane, Wash.	White, Charles G.	3	Romulus, Michigan
Hartus, Ralph E.	2	Mineral Wells, Tex.			

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NOVEMBER GRADUATES IN DIRECTED STUDY COURSES IN 200 SERIES

NAME	REG.	STATION	NAME	REG.	STATION
DS-202					
Clampitt, Homer D.	2	El Dorado, Ark.	Morris, Robert E.	2	Beaumont, Tex.
Fankhauser, R. L.	4	Spokane, Wash.	Pickavet, George	4	Goleta, Calif.
Gordon, James M.	3	Kansas City, Mo.	Stracke, Merle L.	4	Salt Lake City, Utah
Harrington, Thomas	1	Altoona, Pa.	Wann, Ralph M.	2	Little Rock, Ark.
Hren, Anton J.	3	Rochester, Minn.	Yee, Charles S. Y.	6	Wahiawa, Oahu, IHL
Morgan, Merritt C.	3	Offutt AFB, Nebr.			
DS-203					
Desautels, Ed	Spec.	Spenard, Alaska	Nelson, John M.	AC	Norman, Okla.
Falbo, J. A.	4	Douglas, Ariz.	Story, Paul H.	AC	Okla. City, Okla.
Linsbaugh, Robert L.	4	Pueblo, Colo.	Wilkinson, Walter F.	1	Valley Bend, W. Va.
Morgan, Merritt C.	3	Sergeant Bluff, Iowa			
DS-204					
Cline, George V.	5	King Salmon, Alaska	Ohata, Harold B.	6	Aiea, Oahu, T.H.
Gonzales, Eugene G.	4	Albuquerque, N.M.	Pickavet, George	4	Santa Barbara, Calif.
Isumi, George Y.	6	Honolulu, Hawaii	Thompson, L. I.	4	Bakersfield, Calif.
DS-208					
Davis, Charles E.	2	El Paso, Texas	Royce, Marvin W.	3	Eau Claire, Wis.
Fairchild, Samuel	2	Nashville, Tenn.	Satorius, Ray R.	2	Greensboro, N.Car
Moss, Edward	4	Casper, Wyo.			

NOVEMBER GRADUATES IN DIRECTED STUDY COURSES IN 300 SERIES

DS-301					
Bradley, Anthony	WO	Takoma Park, Md.	Krohn, Bill G.	1	Kew Gardens, N.Y.
Garrett, Basil G.	2	Ft. Worth, Texas	Smith, Moreland	4	Medford, Oregon
DS-302					
Craig, Ralph C.	1	Nantucket, Mass.			
DS-303					
Carson, Robert G.	3	Liberty, Mo.	Stevenson, Clarence H.	4	McChord AFB, Wash.
Grebe, Edgaf G.	3	Bradford, Ill.			
DS-304					
Thompson, L. I.	4	Bakersfield, Calif.			

SHORT NEWS ITEMS ON DIRECTED STUDY AFFAIRS

Records clerks are preparing and mailing reminder letters for those who have been inactive for three, six, or nine months A set of information bulletin will be distributed to help new people progress through Directed Study courses 150 exams were received in one day, on Monday, November 17 -- a new record

COMMUNICATIONS EQUIPMENT CLASS 116 CONVENED NOV. 3, 1958, TO FEB. 9, 1959

NAME	REG.	STATION	NAME	REG.	STATION
Beauregard, Jerry	4	Phoenix, Arizona	Lanford, Herbert A.	2	Spartanburg, S. C.
Boyer, Donald W.	1	Jamaica, New York	Malcom, Marshall M.	4	Gr. Junction, Colo.
Brug, Allan H.	4	Portland, Oregon	Matsumura, Dick M.	6	Honolulu, Hawaii
Butler, John P.	2	Florence, S. Car.	Mousel, Ronald M.	3	Park Ridge, Ill.
Dart, Wayne L.	3	Moline, Ill.	Norwood, Ralph M.	2	Jackson, Miss.
Douglas, Aurelius W.	3	Chicago, Ill.	Okamoto, Tadashi	OIC	Japan
Frederick, Q.D., Jr.	2	Fort Smith, Ark.	Piltch, Larry	1	Jamaica, N. Y.
Fulton, James W.	1	Wheeling, W. Va.	Sasaki, Yutaka	OIC	Japan
Hardy, Richard P.	1	Bradford, Pa.	Sharber, John M.	2	Sulphur Spgs., Tex.
Heiniger, Fred W.	4	Wendover, Utah	Simons, Cecil H.	4	Billings, Mont.
Hertel, Roger H.	4	Great Falls, Mont.	Theriot, Albert G.	1	Boston, Mass.
Huhla, Jack A.	3	Dickinson, N. Dak.	Todd, Robert H., Jr.	1	Cincinnati, Ohio
Iha, Eric T.	4	Albuquerque, N.Mex.	Toki, Masaru	OIC	Japan
Johns, George E.	2	San Juan, P. R.	Travis, John H.	1	Gordonsville, Va.
Kastner, William G.	3	Quincy, Ill.	Whison, Vernon S.	3	Muskegon, Mich.
Kilpatrick, William	2	Elizabeth, N. Car.	Westwood, Robert L.	4	San Diego, Calif.

COMMUNICATIONS EQUIPMENT CLASS 117 CONVENED NOV. 17, 1958, TO FEB. 23, 1959

Allison, Laurence	AC	Okla. City, Okla.	Kessler, Edward H.	1	Fiedlay, Ohio
Dehulu, Walter P.	4	Los Angeles, Calif.	Leinbach, Russell E.	1	New York, N. Y.
Dolvin, Carl W.	1	Mineral City, Ohio	Menzies, Joe R.	4	Las Vegas, Nev.
Freeman, William H.	4	Eagle, Colorado	Miller, James A.	2	Augusta, Georgia
Glasdon, Kolbeim	OIC	Iceland	Otto, John W.	2	Elizabeth City, N.C.
Gors, Wayne E.	3	Mason City, Iowa	Quandt, Clarence F.	3	Rapid City, S. Dak.
Hilton, Russell C.	2	El Paso, Texas	Swanson, Norris O.	4	Riverdale, Calif.
Johnson, Harold L.	3	Sioux Falls, S. Dak.	Verploegh, John M.	4	Daggett, Calif.

ILS/VOR CLASS 141 CONVENED NOVEMBER 17, 1958, TO FEBRUARY 6, 1959

Baker, Dale G.	3	Sault Ste. Marie, Mich.	Maki, Herbert M.	4	Casper, Wyo.
Baker, Luther L.	1	Lexington, Ky.	Miller, Francis B.	4	Livingston, Mont.
Connard, Alvin D.	1	Charleston, W. Va.	Morcho, Enrique	OIC	Chile
Engley, Billy N.	2	Waco, Texas	Parker, H.H., Jr.	2	Montgomery, Ala.
Florit, Ernesto G.	OIC	Chile	Perry, H.L., Jr.	4	Gr. Junction, Colo.
Guokas, Vytautas S.	3	Milwaukee, Wis.	Peterson, Ingolf S.	1	Mawana, N. Y.
Haines, Charles D.	1	Pittsburgh, Pa.	Price, James V.	AC	Okla. City, Okla.
Hankinson, Albert E.	1	Bradford, Pa.	Profenna, Rocco	1	Portland, Maine
Hayes, Billy G.	2	Ft. Smith, Ark.	Robertson, Joseph W.	2	Florence, S. Car.
Heindel, Clayton L.	1	Richmond, Va.	Rylander, Delbert T.	3	Fargo, N. Dak.
Holmes, James A.	3	Flint, Mich.	Rynow, Walter E.	6	Canton Island, S.P.
Huisenga, Howard C.	3	Sioux City, Iowa	Shaffer, James K.	4	Medford, Oregon
Johnston, Edward L.	4	Rock Springs, Wyo.	Shenstley, Noble U.	4	Spokane, Wash.
Kranan, Jemall	OIC	Turkey	Shutley, John T.	4	Jackson, Miss.
Klein, Ralph H.	1	Toledo, Ohio	Valenzuela, Marcus A.	OIC	Chile
Knaupenberger, G.M. A.	4	Okla. City, Okla.	Welch, James T.	2	Tulsa, Okla.
Liddle, Jimmie L.	5	Anchorage, Alaska	Wherrell, Nevil D.	2	Orlando, Fla.
Leabo, Don C.	3	Philp, S. Dak.	Williams, Albert D.	4	Oakland, Calif.
Lillo, Vincent N.	4	Gr. Falls, Mont.	Williams, W.W., Jr.	1	Washington, D.
Lipacomb, Wayland	5	Anchorage, Alaska	Wingate, Thomas A.	4	Las Vegas, Nev.
Looney, Harry	1	Elkins, W. Va.			

ELECTRO-MECHANICS TELETYPE CLASS 2 CONVENED SEPT. 15, TO OCT. 10, 1958

NAME	REG.	STATION	NAME	REG.	STATION
Albright, James A.	4	Hobbs, N. Mex.	Tatarko, Andrew F.	2	Lubbock, Texas
Benkert, Thomas A.	1	Dayton, Ohio	Waldrip, Edward E.	4	Los Angeles, Calif.
Davis, Ralph L.	2	Tulsa, Okla.	Weich, John R.	3	Vichy, Missouri
Holdgate, Donald W.	1	Nantucket, Mass.			

SEPTEMBER GRADUATES IN DIRECTED STUDY COURSE 1

Abaer, Basil C.	2	Atlanta, Ga.	Clark, Virgil W.	4	Casper, Wyo.
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SEPTEMBER GRADUATES IN DIRECTED STUDY COURSE 90

Baldon, Robert B.	6	Honolulu, Hawaii	Moore, Thomas L.	2	Atlanta, Ga.
Coates, Thomas M.	1	London, Ky.	Morton, James L.	AC	Oklahoma City, Okla.
Dunning, George B.	4	Miles City, Mont.	Patrick, Howard R.	4	Spokane, Wash.
Edwards, Alfred C.	5	Nome, Alaska	Patterson, Don E.	AC	Norman, Okla.
Engen, Ralph E.	4	Ontario, Calif.	Poyell, Herbert G.	2	Wink, Texas
Federico, Charles P.	2	Bossier City, La.	Price, Sterling W.	4	Grand Junction, Colo.
Hamby, Theodore A.	5	Anchorage, Alaska	Stillman, Maynard L.	2	Jacksonville, Fla.
Kernaghan, Warren	6	Lithue, Kauai, T.H.	Story, Paul H.	AC	Oklahoma City, Okla.
Kosa, Otto	1	Reading, Pa.	Ursery, Eammon, Jr.	2	Ft. Worth, Texas
Mask, Vernon	2	Abilene, Texas	Wilson, Carlos C.	3	Clarksville, Ind.
Miller, Robert P.	AC	Oklahoma City, Okla.			

SEPTEMBER GRADUATES IN DIRECTED STUDY COURSE 100

Blocker, Alvin	3	Wichita, Kansas	Long, L. W.	2	Oklahoma City, Okla.
Bolen, Leroy A., Sr.	2	Beaumont, Texas	McCaffrey, Curtis	2	McAlester, Okla.
Cameron, Melvin R.	AC	Oklahoma City, Okla.	Owen, Clarence A.	2	Miami, Florida
Clark, Kermit W., Sr.	4	Riverside, Calif.	Ornek, E. Sedat	OIC	Turkey
Cooper, John H.	2	Miami Beach, Fla.	Schultz, George D.	4	Redwood City, Calif.
Dhabolt, Edward D.	5	Northway, Alaska	Sharp, Robert G.	2	El Dorado, Ark.
DuBois, D. R.	2	Brownsville, Tex.	Shearson, Kenneth	2	Nashville, Tenn.
Hover, Jack	2	Monroe, La.	Tovbis, William	1	New York, N.Y.
Inokuchi, Takeo	6	Honolulu, Hawaii	Turner, Ronald H.	4	Denver, Colo.
Jannells, Robert D.	1	Westfield, Mass.	Waters, Robert E.	AC	Oklahoma City, Okla.
Johnson, Charles T.	4	Sharp Park, Calif.	Whitcomb, W. M.	5	Anchorage, Alaska
Kakar, Abdul M.	OIC	Ashland, Kan.	Yee, Charles S. Y.	6	Wahiawa, Oahu, T.H.
Kelts, Carl L.	4	Ferndale, Wash.			

DME CLASS 127 CONVENED NOVEMBER 17, 1958, TO JANUARY 9, 1959

NAME	REG.	STATION	NAME	REG.	STATION
Abrams, Samuel E.	3	Romulus, Mich.	Nielson, Roy V.	4	Reno, Nevada
Carson, Robert G.	3	Kansas City, Mo.	Oton, Clarence M.	4	Hanksville, Utah
Dougherty, James J.	4	Los Angeles, Calif.	Rosell, Joseph B.	2	Lufkin, Texas
Duncan, Donald K.	3	Ypsilanti, Mich.	Silva, Anthony B.	4	Winnemucca, Nev.
Grebe, Edgar G.	3	Bradford, Ill.	Taylor, Lawrence A.	1	Richmond, Va.
Johnson, Fred A.	1	Jamaica, N.Y.	Turner, William W.	4	Blythe, Calif.
McWilliams, T. N.	4	Granite, N.Mex.	Woody, James E.	2	Crossville, Tenn.
Mikesell, R. E., Jr.	1	Cleveland, Ohio	Wright, Maurice E.	5	Anchorage, Alaska

NOVEMBER GRADUATES IN DIRECTED STUDY COURSE 90

Ball, Edward J.	4	Phoenix, Ariz.	Knudson, Donald W.	4	Roosevelt, Utah
Baucar, Aydogan	OIC	Istanbul, Turkey	Makowski, Roger J.	1	E. Greenwich, R.I.
Bauer, Byron L.	2	Ft. Worth, Texas	Moore, B. G.	2	Pensacola, Fla.
Carpenter, Claude E.	3	Columbia, Mo.	Newland, R. L., Jr.	2	Barnesdale AFB, La.
Cook, Richard F.	4	Pescadero, Calif.	Petersen, Ingolf S.	1	Mesa, N.Y.
Cook, Robert S.	4	Oklahoma City, Okla.	Peterson, Rudolph P.	4	Salt Lake City, Utah
Crossler, Glen E.	AC	Oklahoma City, Okla.	Pryor, John A.	AC	Midwest City, Okla.
Donaldson, Ural L.	2	Oklahoma City, Okla.	Raffelson, Leo	1	New York, N.Y.
Dyer, Omer O.	2	Knoxville, Tenn.	Sabella, Charles J.	1	Brooklyn, N.Y.
Earl, Harry D.	5	Anchorage, Alaska	Tri, Delbert	3	Indianapolis, Ind.
Farrow, C. L., Jr.	AC	Oklahoma City, Okla.	Ulevog, Thorvald S.	4	Pueblo, Colo.
Harmon, Ralph M.	AC	Oklahoma City, Okla.	Van Aueden, Donald	4	Portland, Ore.
Heller, Verne R.	2	Midwest City, Okla.	Walker, James W.	1	Gordonsville, Va.
Hegar, Daniel T.	AC	Oklahoma City, Okla.	Weatherby, Thor	4	Boise, Idaho
Huguen, Charles P.	1	Chadron, Neb.	Zeman, Richard H.	3	Inkster, Mich.
Huntun, Willard F.	5	Anchorage, Alaska	Kearns, William B.	4	Battle Mt., Nev.
Iverson, Harry S.	3	Jamestown, N. Dak.			

NOVEMBER GRADUATES IN DIRECTED STUDY COURSE 100

Brown, Malcolm E.	2	Vero Beach, Fla.	Minter, George W.	4	Farmington, N.Mex.
Gilderson, J. D.	4	Fresno, Calif.	Newton, R. A.	2	Hobart, Okla.
Johnson, Morris L.	2	Montgomery, Ala.	Paxham, Robert G.	1	Philadelphia, Pa.
Kilach, Henry W.	4	Billings, Mont.	Presson, Robert L.	2	Nederland, Tex.
Leabo, Don C.	3	Phillip, S. Dak.	Skolnick, Bertram		Spec. Jamaica, N.Y.
Kunst, Donald E.	3	Muskegon, Mich.			

NOVEMBER GRADUATES IN DIRECTED STUDY COURSES IN 200 SERIES

DS-201					
Bunge, Dedrick M.	2	Chattanooga, Tenn.	Kakar, Abdul M.	OIC	Afghanistan
Cooper, John H.	2	No. Miami, Fla.	Ladeau, William D.	4	Rosewell, N.Mex.
Forman, Houston R.	1	Swanton, Ohio	Lindhorn, P. H., Jr.	2	Austin, Texas
Ingle, James R.	4	Los Angeles, Calif.	Maki, Herbert	4	Casper, Wyo.

RADAR CLASS 128 CONVENED NOVEMBER 17, 1958, TO MARCH 6, 1959

NAME	REG.	STATION	NAME	REG.	STATION
Section "A"			Section "B"		
Armstrong, Billy M.	1	Washington, D.C.	Brown, Malcolm E.	2	Decatur, Ga.
Anby, Ronald D.	4	Great Falls, Mont.	Hendrix, G. B.	2	Waco, Texas
Ball, Stanley R.	2	Irvington, Ga.	Imadahl, Kermit S.	4	Spokane, Wash.
Bellinger, Guy J.	4	Rolling Hill, Calif.	Keklock, Nicholas	1	Norfolk, Va.
Blackburn, Myrthyn	4	Ogden, Utah	Kile, Joe A.	2	Ft. Worth, Tex.
Bost, Ellis R.	2	Lubbock, Texas	Kirksey, C. L., Jr.	2	El Paso, Texas
Bradley, Anthony D.	WO	Washington, D.C.	Kolousek, James, Jr.	4	Portland, Ore.
Bransford, Wm. G.	4	Albuquerque, N.M.	LaBounty, Joseph B.	1	Taunton, Mass.
Bullock, David B.	2	Moody, Texas	Levine, Harry	2	Charleston, W. Va.
Cambron, Robert L.	4	Tucson, Ariz.	McFadridge, Charles	5	Anchorage, Alaska
Carpenter, Fred V.	4	Riverside, Calif.	McTigue, John H.	4	Seattle, Wash.
Carroll, Sam P.	4	Albuquerque, N.M.	Mason, Roderick D.	5	Fairbanks, Alaska
Chow, William H. P.	6	Honolulu, Hawaii	Morris, E. S., Jr.	2	Memphis, Tenn.
Coudon, John H.	4	Fairchild AFB, Wash.	Osborne, Randal W.	2	Waco, Texas
Cooper, James M.	2	El Paso, Texas	Owen, Clarence A.	2	Miami, Fla.
Del Balso, Joseph M.	1	Portland, Maine	Penzoli, Victor H.	4	Burbank, Calif.
Dunaway, A. I., Jr.	2	Alpine, Texas	Queen, Ralph E.	4	Tucson, Ariz.
Ford, Ralph B.	3	Wichita, Kansas	Ruvario, Marcial	4	Gr. Falls, Mont.
Frederick, Ronald E.	3	Indianapolis, Ind.	Rupert, William C.	1	Charleston, W. Va.
Gadre, Manohar N.	OIC	India	Sanders, Shelby G.	3	Omaha, Nebr.
Gibat, Norman E.	1	Swanton, N.J.	Schreiber, Alvin, Jr.	2	Jacksonville, Fla.
Goode, W. R., Jr.	2	San Antonio, Tex.	Seeger, Frederick C.	2	Crestview, Fla.
Hanks, Joseph R.	2	Tampa, Fla.	Selboe, Karl P.	3	Chicago, Ill.
Hansen, James E.	4	Aurora, Colo.	Shaw, James R.	4	Ogden, Utah
Healy, James M.	3	Boston, Mass.	Will, Darel L.	4	Oakland, Calif.
Pendharkar, S. B.	OIC	India			
Trewer, Harold T.	4	Denver, Colo.			

PRE-RADAR CLASS 129 CONVENED NOVEMBER 17, 1958, TO DECEMBER 12, 1958

Anderson, Nowel R.	2	Atlanta, Ga.	McMakin, William J.	1	Fairmouth, Mass.
Blacklock, H. D., Jr.	2	Jacksonville, Fla.	Myak, Stephen	1	Burlington, Vt.
Bohlin, Harold A.	2	Huntsville, Ala.	Newton, Raymond A.	2	Hobart, Okla.
Brown, Loyd P.	2	Amarillo, Texas	Ponda, Jesse M.	2	New Orleans, La.
Caldwell, Leon	AC	Oklahoma City, Okla.	Prater, William M.	2	Tulsa, Okla.
Callies, Vincent B.	1	Quonset Point, R.I.	Rippe, Richard E.	4	Fairchild AFB, Wash.
Clachrio, Alan B.	1	Quonset Point, R.I.	Segura, Richard C.	2	San Antonio, Tex.
Colletta, Vincent	1	Quonset Point, R.I.	Shaker, Sall J.	1	Falmouth, Mass.
Dorman, Thomas L.	1	Baltimore, Md.	Short, John G.	1	Falmouth, Mass.
Dutton, William A.	1	Pittsburg, Pa.	Taggart, John D.	3	Kansas City, Mo.
Harter, James W.	4	Fairchild AFB, Wash.	Terry, Glenn S.	4	Fairchild AFB, Wash.
Irby, Jack R.	3	Hutchinson, Kan.	Valdez, Annelmo O.	2	Atlanta, Ga.
Kravitz, Alex J.	1	Burlington, Vt.	Warner, Robert P.	2	Atlanta, Ga.
Levellie, Walter H.	2	Pensacola, Fla.	Worley, James H.	4	Fairchild AFB, Wash.
McClain, Robert L.	2	Balboa Hgts., C.Z.	Sellard, Dennis A.	3	Park Ridge, Ill.

ILS/VOR CLASS 140 CONVENED AUGUST 25, TO NOVEMBER 14, 1958

NAME	REG.	STATION	NAME	REG.	STATION
Araujo, Wilson O.	OIC	Brazil	Hunt, George C.	1	Roanoke, Va.
Austin, John T.	5	Anchorage, Alaska	Hunt, Gerald G.	3	St. Louis, Mo.
Benda, Leo W.	3	Mason City, Iowa	Kakar, Abdul M.	OIC	Afghanistan
Blackman, Berkeley	2	Jacksonville, Fla.	Kosa, Otto	1	Reading, Pa.
Bransford, William C.	4	Albuquerque, N.M.	McFadridge, Charles	5	Anchorage, Alaska
Del Balso, Joseph M.	1	Portland, Maine	Medeiros, Arthur C.	6	Honolulu, Hawaii
Denniston, David B.	1	East Boston, Mass.	Meisel, Donald T.	3	Sioux Falls, S.D.
Earhart, Lee D.	1	Williamsport, Pa.	Miller, Gene W.	1	Watertown, N.Y.
Ferguson, Harold G.	4	Los Angeles, Calif.	Myers, James H.	5	Annette, Alaska
Frubie, Frank L.	1	Jamaica, N.Y.	Newman, Robert S.	3	Chicago, Ill.
Gibat, Norman E.	1	Swanton, N.J.	Price, Joseph R.	4	The Dalles, Oregon
Gillespie, James D.	4	Wilcox, Arizona	Proto, Michael J.	2	El Paso, Texas
Goldman, Brooks G.	WO	Washington, D.C.	Schuster, Erich C.	3	Springfield, Ill.
Grant, Duncan J.	OIC	Nova Scotia	Scott, Delmar R.	2	New Orleans, La.
Greene, Emmett	2	Shreveport, La.	Sharpe, John A.	WO	Toronto, Canada
Gutierrez, Alirio	OIC	Bogota, Colombia	Tamayo, William OIC		Bogota, Colombia
Hamilton, Daniel J.	1	Jamaica, N.Y.	Tukhi, Abdul S.	OIC	Afghanistan
Harris, Maurice A.	4	Livingston, Mont.	Turner, William W.	4	Blythe, Calif.
Harris, Patker E.	1	Baltimore, Md.	Wright, Maurice E.	5	Anchorage, Alaska
Herrera, Joseph	2	Brownsville, Texas	Zaborsky, Leo J.	4	Seattle, Wash.

RADAR OPTION SPECIALTY CLASS 125 CONVENED SEPT. 2, TO SEPT. 26, 1958

Brohman, Carl B.	3	Minneapolis, Minn.	Markay, Gerald J.	1	New York, N.Y.
Brown, M. A., Jr.	1	Norfolk, Va.	Martindell, Jay P.	3	Indianapolis, Ind.
Cagle, Harold	2	Nashville, Tenn.	Mayhall, Joseph G.	1	Cleveland, Ohio
Chapman, Esten E.	1	Boston, Mass.	Moon, Arthur M.	2	Montgomery, Ala.
Clark, William G.	2	Memphis, Tenn.	Mosser, Joseph F.	4	Seattle, Wash.
Cox, Richard A.	3	Kansas City, Mo.	Nelson, Robert L.	4	Salt Lake City, Utah
D'Agati, James F.	1	Cleveland, Ohio	Olson, Clyde O.	4	Seattle, Wash.
D'Angelo, Andrew R.	1	Idlewild, N.Y.	Pearson, Richard R.	4	Los Angeles, Calif.
Duran, Blas A.	OIC	Madrid, Spain	Phillips, John T.	4	Los Angeles, Calif.
Quedeney, Victor J.	OIC	Santiago, Chile	Reichart, Eugene C.	1	Palermo, N.J.
Hamel, Albert	4	Denver, Colo.	Reyes, Alfred J.	2	New Orleans, La.
Helwig, Ray B.	3	St. Louis, Mo.	Sullivan, Billy E.	3	Indianapolis, Ind.
Hopkins, John W.	2	Shreveport, La.	Tingle, John E., Jr.	2	Austin, Texas
Jones, Cleo	2	San Antonio, Texas	Vetner, Loren D.	4	Spokane, Wash.
Leatherbury, Lewis C.	2	New Orleans, La.	Weber, William G.	2	New Orleans, La.
Lester, E. B., Jr.	2	Atlanta, Ga.	Yubero, Jose	OIC	Madrid, Spain
McCaffrey, Francis X.	AC	Oklahoma City, Okla.	Zaemes, Theodore	1	Washington, D.C.
McIntosh, Eddie	2	Jacksonville, Fla.			

AIR CARRIER OPERATIONS BRANCH

Class ACO-J1-7 Jet Flight Indoctrination - assigned September 22, 1958

Richard B. Brice Denver, Colorado
George R. Tarnalis Miami, Florida

Class ACO-8-5 Flight Navigator Certification (Basic) - Assigned Sept. 29
(Conducted by AC-200.1)

C.H. Birdson Atlanta, Georgia
W.H. Evans Honolulu, T.H.
E.L. Jett New York, N.Y.
C.F. Stacy San Francisco, California

Class ACO-6-28 Type Rating on Four-Engine Transport Category - assigned
September 29, 1958

G.K. Lankford Oklahoma City,
G.N. Masterson Oklahoma City,

Class ACO-I-58-5 - Air Carrier Operations Indoctrination - assigned October 13, 1958

L.L. Brown San Antonio, Texas
D.E. Harper Washington, D.C.
F.E. Kurdys New York, N.Y.
J.F. Noonan, Jr. Burbank, California
J.P. Seymour Nashville, Tennessee
G.J. Sheridan Los Angeles, California
D.W. Stewart Kansas City, Missouri
D.M. Warren Washington, D.C.

Class ACO-J1-8 - Jet Flight Indoctrination - assigned October 20, 1958

S.D. Haley Denver, Colorado
H.B. Strawn San Francisco, California

Class ACO-I-58-6 - Air Carrier Operations Indoctrination - assigned Nov. 10, 1958

T.J. Alkire Ft. Worth, Texas
J.R. Anderson Minneapolis, Minn.
Frederick Brown, Jr. Miami, Florida
Buell Z. Davis Seattle, Washington
L.A. June, Jr. Miami, Florida
D.C. Reynolds Washington, D.C.
J.D. Stull New York, N.Y.
W.M. Thomas Miami, Florida

FLIGHT TEST & GENERAL OPERATIONS

GO-14-4 September 22, 1958

H.S. Foster Columbia, S. Carolina
F.W. Lueneburg Milwaukee, Wisconsin
W.M. McClain Salt Lake City, Utah
M.W. Turner Westfield, Mass.

GO-11-19 September 22, 1958

J.H. Doster Billings, Montana
H.B. Gowin Richmond, Virginia
E.B. Schaeffer St. Louis, Mo.
C.B. Seidel Miami, Florida

GO-14-5 October 6, 1958

P.J. Baker Richmond, Virginia
H.A. Hindert San Antonio, Texas
W.C. Richardson, Jr. Detroit, Michigan
A.G. Witter Boise, Idaho
K. Moriya (Observer) Tokyo, Japan
Bruno Ricco (Observer) Rome Italy

GO-1-20 October 6, 1958

J.P. Dwyer Cleveland, Ohio
A.A. Gossard Palo Alto, California
J.C. Smith Wichita, Kansas
R.H. Wisener Amarillo, Texas
Terumi Miyoshi (Observer) Tokyo, Japan

GO-13-4 October 20, 1958

W.B. Barclay Washington, D.C.
E.A. Joyce Indianapolis, Ind.
E.S. Leach Seattle, Washington
R.F. Scholts Tulsa, Okla.
K. Moriya (Observer) Tokyo, Japan
T. Miyoshi (Observer) Tokyo, Japan

GO-13-5 November 3, 1958

J.L. Eddy Albuquerque, N.M.
J.J. Kostura New Orleans, La.
F.D. Linehan Okla. City, Okla.
R.B. Rusdy Detroit, Michigan
B. Ricco (Observer) Rome, Italy

FLIGHT INSPECTION TRAINING SECTION GRADUATES

INDOCTRINATION (CAA Class 1-58-J) 8/28 - 10/3/58

Edwards, Charles C. Region 3
Berryman, Earl L., Jr. AC
Farley, Edward J. 2
Hall, Ulysses, R. 3
Kohoe, P.M. 3
Koch, James R. 1
Luxton, Robert A., Jr. 4
Macy, Loran W. 4
Morrill, Irving E. 1
Ratcliff, Howard T. 2
Robinson, Robert 5
Rows, Earl L. AC
Sorrano, Vito J. 1
Untersee, Paul 3

INDOCTRINATION (USAF Class #28078) 8/28 - 10/3/58

Anderson, Wilbur R., Jr., S/Sgt. Mitchel AFB
Brown, Wallace T., Capt. APO, New York
Brown, Lawrence L., Jr. Major Randolph AFB
Cumbie, Lynwood, W., Capt. Chanute AFB
Duke, Royce H., A/IC Robins AFB
Johnson, Thorel T., Capt. APO, New York
Ruesegger, Wayne L., T/Sgt. Chanute AFB
Swartz, Earl E., Jr. Capt. APO, New York
Watson, Robert F., Capt. APO, Seattle, Wash.
Korstjens, Charles L. AC
Rogers, T. J. AC
Sennett, John AC

REFRESHER (CAA Class R-58-J) 10/13 - 10/24/58

Covert, Chester L. Region 1
Leik, Francis H. Region 3
Linden, Byron N. Region 4
Parkman, James C. Region 2

(CAA Class R-58-K) 11/3 - 11/14/58

Hanson, E. D. Region 3
Hootes, Shirley R. Region 2
Pfeffer, James C. Region 4
Reinwald, William H. Region 2

INDOCTRINATION COURSE (58-6) November 10, 1958

Flight Test

J.M. Bugbee Los Angeles, Calif.
J.P. Burke Washington, D.C.
W.J. Cox Los Angeles, Calif.
H.A. Parker Los Angeles, Calif.
E.A. Well New York, N.Y.
W.T. Ziemann Washington, D.C.
Wilford Bryde Los Angeles, Calif.

General Operations

T.B. Barefield New Orleans, La.
J.K. Croft Washington, D.C.
R.A. Davenport Cedar Rapids, Iowa
P.E. Dennis Houston, Texas
D.M. Hedstrom San Antonio, Texas
S.A. Lewis Philadelphia, Pa.

GO-15-1 November 17, 1958

H.M. Hamilton Alexandria, Va.
J.C. Hornaday Columbia, S.C.
D.R. Nelson W. Chicago, Ill.
D.R. Woods Wausau, Wisconsin
K. Moriya (Observer) Tokyo, Japan
B. Ricco (Observer) Rome, Italy

FT-J2-3 November 17, 1958

David L. Baker Washington, D.C.
H.C. Faller Miami, Florida

ACO-7-27 November 24, 1958

A.S. Jenkins, Jr. Minneapolis, Minn.
Dan Rush Minneapolis, Minn.
R.A. Shepanek Washington, D.C.
C.W. Walker Seattle, Washington
R.L. Johnson (Observer) Mexico D.F., Mexico
T. Miyoshi (Observer) Tokyo, Japan

**PRACTICE KITS AVAILABLE
FOR DS-441 COURSE**

A COURSE ON Transistor Physics and Circuits, with practice experiment kits, has been prepared by Air Navigation Facilities Branch for home study training. It is designated as Directed Study course DS-441, Semi-Conductors and Transistor Circuits, and includes 7 lesson assignments with 10 practical experiments to be performed at appropriate points in the course. Kits will be distributed in localized areas roughly equivalent to Regional Districts.

SUPPLEMENTARY COURSE material has been prepared but principal study will be from a commercially published text, "Transistor Physics and Circuits" (Prentice-Hall). Release of the course comes at a time when more and more new equipment is appearing with transistorized circuits. Interest in the course appears high and more than 50 requests for enrollment are already on file.

IT IS PLANNED TO divide the kits into two parts to employ the limited number available more effectively. By arranging two successive groups of experiments, the students who move more rapidly through the first group can receive the second set without being delayed through lack of kits tied up by less active students.

REQUESTS FOR ENROLLMENT will be accepted now and will be processed as soon as printing and binding is completed, approximately December 15th.

TRAINING IN THE new field of Semi-Conductors will be augmented next year when the Resident ILS/ VOR School introduces a Transistor course in conjunction with its course on Vacuum Tube Circuits.

- L. Daugherty

THE LITTLE NOISE



From: True Magazine

CHILD WINS HONORS
IN PHOTO CONTEST



DEBORAH, 4-MONTH old daughter of recent Aeronautical Center student Mr. Charles Turner (Communications Equipment Class 106) and Mrs. Turner, is in the national spotlight these days, having just been announced 4th place winner in the nation-wide child photo contest which was sponsored locally by the Photo-Reflex studios of John A. Brown Company.

APPROXIMATELY 300 studios throughout the United States participated in the contest. A monetary award of \$20.00, a certificate and photographs will be sent to the child's parents at Midland, Texas, where proud dad is a CAA Electronics Maintenance Technician.

CONGRATS to Debbie, Mom and Pop Turner.

O-O-O-O

MARRIAGE: When a man gets hooked with his own line -

Dedicated to Bob Hightower, AC-260, who takes "the step" December 27.

(MATERIALS ON MOVE -
BACK COVER)

CONSTRUCTION MATERIALS assigned to the custody of the Operations Section of the Structural Materiel Branch being moved from the old storage facilities to the new outside storage ramp South of the Warehouse Building. These materials were moved by the Kings Van & Storage Company and the Jeffries Truck Line while the Operations Section personnel were engaged in making shipments to construction sites and receiving new materials procured by the Washington Office, W-660. The unpaved area in the background has been paved since this picture was taken and at the present time very little unused space exists.

O-O-O-O

HERE IN THE Land of the Midnight Sun, about 600 miles north of the Artic Circle, we have to meet and beat all kinds of hazards of weather and terrain to maintain our monthly flying requirements. It was the middle of the summer season, 24 hours of daylight, and we had just completed a tough schedule of flying for the month. We thought we had done a good job under difficult conditions, but what did our superiors - located far to the south - have to say?

A WORD OF PRAISE, perhaps? Hardly! Their reply: "Why is it you haven't met your requirements for night-flying?"

O-O-O-O

If you can't convince 'em

CONFUSE 'EM

O-O-O-O

DO IT TOMORROW
You've Made Enough
Mistakes Today



MATERIALS ON THE MOVE - CAA AERONAUTICAL CENTER - USA
(See story on back of this page)