

In April 1942 Mr. and Mrs. Samuel J. Grossman were sent down to the Radio Department at the request of Colonel Benjamin Stern, Signal Officer of the III Fighter Command, now transferred, to introduce their system of code teaching. Their system consisted of teaching the alphabet in groups which had similar code symbols. For example, E I S H 5 (see Inclosure entitled: Radio Operators' Course,) which are represented by one dot, two dots, three dots, four dots, and five dots, respectively. This System embodied two theories: 1, The sequence of teaching the letters of the alphabet, which they termed "Scientific Sequence", and 2, the importance attached to the frequent use of clear text material for practice. They also emphasized individual instruction of the student. This method of teaching code was found to give excellent results in the early stages of learning, however, it was found to be a hindrance to the student when he progressed to the higher speeds. This was due to the fact that the method of teaching encouraged a man to count the number of the components rather than to learn the characters as a unit. This system was discontinued in July 1942 in favor of the standard Signal Corps lesson tapes. However, the one lesson learned from this experiment was that individual attention by the instructors to the student is very important if rapid progress is to be made. A report of the Comparison, new system of code instruction developed by Samuel J. and Viola S. Grossman and the Signal Corps System as outlined in Training Manual TM-11-454 is attached for informational purposes.

In February of 1943 Blinker Signaling was introduced in the training schedule. Equipment used for this course was improvised since no standard equipment was available. Flashlights (TM-122-A) were used. A piece of white tissue paper was placed between the light and the lens and placing an insulator between the spring and the base of the flashlight and the battery and then by connecting a wire to the battery and a wire to the spring and bringing the two wires out of a hole bored in the case of the flashlight to a key it was possible to key the lamp and simulate blinker signaling. This method was not too satisfactory. It was desirable to find some means by which blinker signaling could be made automatic. After some experimenting it was found that two sets of messages could be recorded on one tape. By running the tape thru two keyers and having one base line actuate one keyer and the other base line actuate the other keyer it was possible to reproduce a two-way conversation using one keyer to actuate one lamp and the other keyer actuating the other lamp. By painting an actual battle scene on a piece of cardboard about 4 X 5 feet and placing small lights at probable blinker light stations, successful blinker training was given.

Maintenance Section: The object of this section is to train Radio Department for maintenance and repair of all radio transmitting and receiving equipment used by AF Troops. The original school, when founded in December 1941 was called the Electrical Fundamentals school. At the beginning of the school this course was taken by the Radio Operators as part of their training. The name of the section was changed to the Radio Maintenance Section in June 1942. The original course consisted of 8 weeks training, but was later reduced to six and then to four weeks. In February 1943 the course was extended to six weeks. It was originally intended that only men with previous civilian radio training should be admitted to the course. This, of course, was to make up for the short time that was available to train the men. However, it was found that an insufficient number of men had the desired civilian training and therefore it was necessary to send the men to the Electrical Fundamentals school, a separate school Department, later cancelled out, for basic electrical training. A number of the Radio Instructors of the new Electrical Fundamentals were re-transferred on Special Duty to this

new school when it was formed. The purpose of this section was to teach the elements of service repair and included among the subjects soldering, radio repair troubles and the course was nearly in its final form before the location was changed. The students were taught the maintenance and repair of the SCR-177 and 188 and associated equipment. Breadboard demonstrators were used to show the various stages in a receiver and each stage was manufactured on a breadboard in such a manner as they all could be coupled together to give a complete sight picture of a receiver. The breadboards were made by the section head and the instructors. A simple oscillator was available to demonstrate to the students how a transmitter worked. The test set E-506 was placed into use later at the Department to test sets. They manufactured their own test sets via means of electric light bulbs connected in series into the 110V. line and had test probes attached. The Department conducted a survey of the radio shops in town to determine the availability of old used commercial receivers which were purchased for a fraction of their worth and used as practical pieces of equipment for the students to work on. The instructors installed various troubles in the receivers and the students worked the circuits out and tried to locate the source of the trouble, which training was very valuable in the sense of practical work. With small meters the voltmeters were built in the laboratory work room. Practical work in the location of trouble was aided by the obtaining of an oscilloscope, and this instrument was used to show the students the different radio wave patterns and the pulsating DC and AC current. Approximately July of 1943 the school department was closed down because the need for SCR 174 had dwindled because of the increasing number of men that possessed that specialty who were coming to this field from civilian schools. However it was found that these men did not have any training in Army sets and in many cases were weak on theory. A four weeks refresher course was immediately instituted to give these men the training they needed to qualify them as radio repairmen in Army equipment. At about the same time it became apparent that there would be a need for radio repairmen, FM-648 so a frequency modulation course was initiated. This course originally was a six weeks' course, the first four weeks being the same as the 174 course, and the last two weeks being devoted to FM. In this course the student did not have to have previous Army radio training to qualify for entrance. In August 1943 it was determined that there was an average of 174's and a shortage of 648's so it was decided to convert a selected group of 174's to 648's. A four weeks training program was made up to take care of this group of men. This course is running at the present time. The 174 refresher course is functioning at the present time.

#### IV. Supply & Materiel.

The supply section of the Department was put into operation right at the initiation of the school by the Department head who was thoroughly convinced of a good supply section's worth. The equipment on hand consisted of a record player, two code aptitude records a can of oil and a pair of pliers. Gradually as more and more men qualified for the operator and fundamentals courses, additional equipment was acquired. Six Macalroy keyers, model G-213 and two dictaphones comprised the first code practice equipment. Soon TG-5-a telegraph sets and a Radio Set SCR-245 were added to the Supply. The radios were old and far from complete and with them the real problems of the supply section started. Since Signal Corps radios were unfamiliar to everyone the nomenclature of most of the parts were either erroneous or completely missing. It was any as the before the sets were corrected and changed and signed for. There was little loss of equipment/parts during the location move. The new building for the supply gave that section a chance to expand. The first substantial addition of the school's equipment was the acquisition of 75 second

hand radios of commercial make. These radios were used by the Fundamentals Section for instruction purposes. Later these sets which differed widely, were all torn down and rebuilt into uniform five (5) tube kits. The Supply Section had to fight to keep the school supplied with essential but hard to get materials. Notably among these were fuses. With the school's high powered equipment being used by inexperienced students, fuses were blown out at an alarming rate. While the Section Head of the Supply Section was on duty in that section he made a trip to Atlanta, Ga. with purchasing authority. From the Lafayette Radio Co. of that City he purchased a large supply of meters, resistors, condensers, power supplies and other radio equipment which was sorely needed by the school. Among the articles purchased were 150 code practice buzzers. These sets became a vital part to the code section. At the present time the supply section is more concerned with the storage of the equipment on hand than in the acquisition of new equipment. The radios necessary for the training of the students have been issued to the various sections of the Department reading them, but the accessories line the supply room from floor to ceiling.

V. Special Staff Activities (Ent 2.)

**List of Inclosures:**

**Incl. No. 1 - Key Personnel - initial**

**Incl. No. 2 - Report of Code Systems**

**Incl. No. 3 - Department Heads.**

**Incl. No. 4 - (4') Maintenance Demonstration  
(4") Typical Code Instructor  
(4") Instructor Group - Code Section.**

**HISTORY**

**RADAR DEPARTMENT  
Preliminary Operational Training  
Aircraft Warning Unit Training Center  
1 January 1942 to 1 October 1943**

## **HISTORY**

### **RADAR DEPARTMENT Preliminary Operational Training Aircraft Warning Unit Training Center Drew Field, Tampa, Florida**

**Dates: 1 January 1942 to 1 October 1943.**

#### **SECTION I (Personnel and Administration)**

##### **1. Original Unit.**

a. This organization has been designated as the "Radar Department, Preliminary Operational Training" and is assigned to the 500th Signal Aircraft Warning Battalion as of 1 October 1943 for purpose of administration and command.

b. The Department was activated on 9 January 1943.

c. The activation took place at Drew Field, Army Air Base, Tampa, FLA.

d. This organization was activated under Table of Distribution No 11-1163-5, War Department, Headquarters Army Air Forces, Washington, 9 January 1943. (See Insl #1)

e. The personnel was drawn from qualified men of the 501st Signal Aircraft Warning Regiment, 503rd Signal Aircraft Warning Regiment and 553rd Signal Aircraft Warning Battalion at Drew Field, Tampa, Florida.

##### **2. Changes in Organization.**

a. This section of the history is a log of the events covering the Radar Department from the period 1 January 1942 to 1 October 1943. During the period 1 January 1942 to 9 January 1943 the Radar Department was not operated on an official T/O or T/D and no complete journal of its operation is available. The events noted for the period 15 January 1942 to 11 January 1943 are partially supported by documents and correspondence while the rest of the information was gathered through interviews with persons connected with the department during the various stages of its development. The events noted for the period 11 January 1943 to 1 October 1943 were taken from the daily journal and other important documents kept by this department.

b. 15 January 1942 to 9 January 1943.

(1) 15 January 1942:--Lt Col B. Stern and 1st Lt G.M. Higginson attended a conference at Army Air Force in Washington, D.C. to discuss problems in connection with training of Radar Specialists. Lt Higginson returned shortly after and began organization of the Radio "B" Department, of the Garrison School, Aircraft Warning Service, 3rd Interceptor Command, Drew Field, Florida. (See Insl #2 for reference to school name)

(2) 25 January 1943:

(a) The first class of 202 men was scheduled to begin cadre type training in one of four specialties on this date. (See Inal #3). This was changed however and the first class did not start until 2 February 1942.

(b) The overhead of the organization consisted of the following officers:

1st Lt George M. Higginson, Department Head  
1st Lt C.E. Wist  
2nd Lt Ralph J. Anderson  
2nd Lt Laurens Dyved  
2nd Lt Gordon T. Gould  
2nd Lt Daniel E. Farmer

We had thirty-six (36) enlisted men from the 553rd Signal AN Battalion and 503rd Signal AN Regiment. All personnel had had either field experience with radar sets or had attended the AN School at Fort Monmouth, New Jersey. (See Inal #4)

(c) The equipment consisted of three SCR-270-B units, 3 hospital ward tents and a few pyramidal tents located in the area between 6th and 8th streets and Ave E and F. The training aids used were blackboards, circuit diagrams from the units, instructors note books and some obsolete commercial broadcast receivers.

(3) 2 February 1942:— Extract from letter to Commanding Officer, Army Air Base, Drew Field, Tampa, Florida states purpose of this Department as, "Radio "B" Department gives the student training and practice in operation of Radar Aircraft Locating Units.". (See Inal #5)

(4) 11 February 1942:—Total School personnel of this department consisted of 33 officers and 58 enlisted instructors; most of whom had arrived at Drew Field in the previous two weeks and had been placed on special duty to the School. (See Inal #6)

(5) 23 February 1942:—In order to obtain the maximum use of the equipment on hand, a night school was started this date consisting of an eight weeks Basic Specialist Course. (See Inal #7)

(6) Sometime between 14 February 1942 and 24 February 1942 the Department's name was changed from Radio "B" to Radar as evidenced by letter heads on inclosures #8 and 1st Inal thereto.

(7) Six SCR-270-A units were brought to Drew Field from Fort Dix, New Jersey during the later part of February 1942. These sets were not operational but the components thereof were used in the training program.

(8) 1 March 1942:—Three additional SCR-270-B radar sets were brought in from the field and used in the school as operational sets. By this time a number of initial handicaps had been overcome and the training schedules were revised so that the original cadre training was discontinued. The courses were reorganized to set up given capacities in the various radar specialties.

(9) About 15 March 1942, six SCR-268 sets were brought to Drew Field from Fort Dix, N.J. by the 501st Signal AW Regiment which moved here at that time. These sets were turned over to the school for use in training.

(10) 26 March 1942:—The night course was dropped and the SCR-268 course was added. Definite capacities for SCR-268 and SCR-270 were set up.

SCR-268	200 Students
SCR-270	400 Students

(See Incl #9)

(11) 1 April 1942:—The department moved into the area between 5th and 6th streets and Avenues F and H. The buildings in this area consisted of hutments and winterized pyramidal tents.

(12) 31 August 1942:—Operators Course on the SCR-588-B was started at Tarpon Junction, Fla. Students were transported from the Radar Department to Tarpon Junction and back daily in 2½ ton trucks.

(13) Sometime between 12 October 1942 and 17 October 1942, Capt George N. Higginson was transferred and Capt Lyle E. Reading was made Department Head. This is evidenced by signatures on Incl #10 and #11.

(14) About the latter part of October 1942 the additional radar area on West Shore Blvd and Columbus Drive was opened and the SCR-588 training was transferred from Tarpon Junction to the West Shore Radar Area.

(15) 17 November 1942:—Two SCR-271's received in this department. Confidential letter requests that building be constructed to house these sets. Sets to be used in SCR-270 operators course.

(16) 1 December 1942:—The first SCR-602's arrived about this time and were put into operation. The SCR-268-516 course was discontinued and most of its personnel was transferred to the newly organized 602 Course.

(17) 21 December 1942:—The first students were entered in the SCR-602 Operators course as of this date.

c. 9 January 1943 to October 1943.

(1) 9 January 1943:—The department was directed to keep a journal of daily events. (See Incl #12)

(2) 11 January 1943:—Calibration of SCR-588 at West Shore started by Lt Altman.

(3) 12 January 1943:—SCR-588 Receiver and SCR-602's arrived and an aiding writing installation.



(4) 14 January 1943:—Capt Schwede called in reference to progress on installation of SCR-270 trainer.

(5) 18 January 1943:—Training on SCR-402 started for U.S. Marine Corps students.

(6) 3 February 1943:—Starting 8 February 1943, school to be on a seven day schedule, 16 hours a day.

SCR-508 Operators—80 men/wk.  
SCR-602 Operators—84 men/wk.  
SCR-270 Operators—40 men/wk.

(7) 11 February 1943:—All eleven 508 receivers put into use as training sets at West Shore.

(8) 21 March 1943:—The first RC-150's and 151's arrived and their installation was begun on the 270's and 271's.

(9) 1 May 1943:—The Radar Department is assigned to the 2nd Signal AN Training Battalion. (See Incl #13)

(10) 6 May 1943:—Capt Lyle M. Reading assumes command of the Radar Department, Preliminary Operational Training. (See Incl #14)

(11) 14 May 1943:—Three SCR-527 units arrived and placed in the West Shore Radar area where they were put into operation.

(12) 7 June 1943:—The first Operators course on the SCR-527 is started with the stress being placed on G.O.I. Training.

(13) 23 June 1943:—A peak enrollment of 1129 students was reached on this date. (See Incl #15)

(14) 4 August 1943:—The name of the West Shore Radar Site was changed to the Col John H. Brewer Site.

(15) 7 August 1943:—Capt Lyle M. Reading, Department Head, relieved from duty with this department, Far 20, SO 194, HQ, ANUTC, dated 6 August 1943. Duties of Department Head assumed by Capt Coffman. (See Incl #16)

(16) 15 September 1943:—The first SCR-615 arrived and is to be placed in building 11-B-22. The lower half of one of the SCR-271 towers to be used in the absence of the usual tower.

3. Strength, Commissioned and Enlisted.  
1 October 1943.

a. Officers—33  
b. Enlisted Inst—326  
c. Guards—85  
d. Potential Inst—16

4. Station.

Drew Field, Tampa, Florida.

**5. Missions.**

None.

**6. Campaigns.**

None.

**7. Battles.**

None.

**8. Commanding Officer in important engagements.**

See Par #2.

**9. Former and present members who have distinguished themselves in action.**

None known as of 1 October 1943.

**10. Department Photograph.**

See Incl #1B.

**11. Records and Files regularly maintained in the Radar Department.**

**a. Personnel.**

- (1) Grade Sheets—Weekly and final grades by courses.
- (2) School Form #2A.—Weekly grades by courses.
- (3) 588th Bn Form #3—Graduates by organization and courses.
- (4) Journal—Events during a 24 hour period.
- (5) Record of Honor Students.
- (6) Duplicates of Special Orders and Extracts.
- (7) Progress Charts—All Operator and Power Plant Repairman courses graduating.
- (8) Weekly strength Roster.
- (9) Index Cards—Students and Staff.
- (10) Area Passes—Student and Staff.
- (11) Record of Passes issued.
- (12) Performance Cards—Shows performance and schooling of staff personnel.

- (13) Interview Sheets.
- (14) School Form #1--Daily enrollment.
- (15) School Form #15--Weekly Status of enrollment.
- (16) School Form #16--Daily Enrollment of Special Courses.
- (17) Attendance Curve--Daily % of absentees.
- (18) Attendance Rosters--Daily attendance report.

b. Intelligence.

- (1) Receipt for Classified Documents.
- (2) Record of Classified Documents.

c. Training.

- (1) Record of Current Forms Reproduced.
- (2) Training Schedules.

d. Supplies and Equipment.

- (1) Weekly report of training equipment status. (Confidential)
- (2) Monthly report of replacement parts. (Confidential)
- (3) Daily records of Maintenance repairs.
- (4) ANUTC Form "A"--Battery record.
- (5) ANUTC Form "B"--lubrication record.
- (6) ANUTC Form "C"--Record of repairs on vehicles.
- (7) Record of equipment sent out to be repaired.
- (8) Carpenter Shop work orders.
- (9) MR on Units charged to this department.
- (10) Debit and Credit inter-department MR's.
- (11) Debit and Credit MR's from ANUTC, and 588th SAN Bn.
- (12) Quarterly Droppage.

**SECTION II  
(Intelligence)**

1. The equipment and instructional material used in the Radar Department is for the most part classified as either Secret or Confidential. Necessary precautions have been taken under the provisions of AR 380-5 to see that this equipment is properly guarded. The Main Radar Area and the Col John H. Brewer Site are enclosed by fences that are illuminated at night and guarded by an armed guard at all times. Admission to these areas can be gained only by presenting authenticated passes issued by the department or by the S-2 section of the Aircraft Warning Unit Training Center.
2. All classified written material used in these areas is kept in a concrete vault or an office safe. Such material is made available only to authorized persons.
3. All special duty personnel and students placed on duty with this department are given S-2 clearance by the Intelligence Sections of higher headquarters before they are accepted.
4. A campaign is continually conducted to remind the students and instructors of the nature of the material they are working with. All students are told on their first day of the importance of not discussing the subject of radar outside the classroom and are warned of the punishments provided by the Espionage Act. They are allowed to take notes only in properly classified note books that are kept in the Department vault when the student is not in the area.

**SECTION XII**  
(Operation and Training)

1. Courses conducted by the Radar Department.

<b>SET</b>	<b>COURSE</b>	<b>LENGTH</b>	<b>SEM</b>
SCR-370	Operators	4 wks	514
SCR-370	Radar Repairman	12 wks	953
SCR-370-527	Power Plant Repairman	4 wks	077
* SCR-527	Radar Repairman	4 wks	953
SCR-527-508 G.C.I.	Operators	4 wks	514
* SCR-508	Radar Repairman	4 wks	953
SCR-508	Power Plant Repairman	2 wks	077
SCR-402	Operators	4 wks	514
* SCR-402	Radar Repairman	4 wks	953
SCR-402	Power Plant Repairman	2 wks	506

\* Students must have had previous qualification on some radar set as a (953).

2. Instruction.

a. The instruction in the courses shown in Par #1 is broken down into lecture and discussion classes and practical work on the equipment and in laboratories.

(1) The Operators on the various sets get actual experience in operating a radar set in addition to a lot of practice on synthetic trainers. Trainers are available in the department for operational training in the three major types of operation encountered. All operational training is conducted using the Standard Operating Procedures set down by higher headquarters.

(2) The Radar Repairmen are given a chance to work on their designated set. A complete study of the theoretical and practical operation of the various components of the sets are made as well as integrated practice in trouble shooting and system analysis on the set as a whole.

(3) The Power Plant Repairmen are given instruction on the power unit peculiar to a designated set. This includes the theory of operation of internal combustion engines and practice in repair of broken parts, preventive maintenance and expedients necessary for field repairs.

b. In addition to the actual work on equipment a variety of additional training aids are used to add interest and make learning more realistic for the student. These aids are further discussed in Par #3.

6. All courses of instruction include examinations as a means of evaluating a student's performance and ability. Tests are given in both the academic work and in actual performance on the equipment. Complete weekly grades are kept on all students and a final report is made on each man at the completion of his course. These reports are made available to organization commanders and may be used by them as an aid in classifying and assigning personnel.

### 3. Training Aids.

a. The training aids used include the actual radar sets; synthetic trainers, models, sand table, training films and film strips, charts and diagrams.

b. The use of the actual radar sets has previously been discussed.

c. The synthetic trainers are used to produce operational information on multiple radar indicators. This information is displayed in the same fashion as the information is displayed on the actual operating set. This type of training is very advantageous since it allows for step by step introduction to operating techniques and is very easily adapted to controlled performance testing which in turn increases teaching efficiency a great deal.

d. Models and cut-aways are used primarily for the Radar Repairman's and Power Plant Repairman's courses for demonstrating functional operation and construction of various parts.

e. A Sandtable is used chiefly for demonstrating camouflage.

f. Training films and film strips are used to give instruction in various phases of all courses and also in topics of allied interest.

g. The charts and diagrams used consist chiefly of circuit diagrams of various components and block diagrams of sets. A number of performance charts are also included.

**SECTION IV**  
**(Material and Supply)**

1. The S-4 Officer of the Radar Department is responsible for the procurement of supplies and material, maintenance of equipment and grounds and transportation.

a. Procurement of all material and equipment is handled through the S-4 of the 588th Signal AN Battalion. The procurement of parts and supplies for the older established radar sets is not much of a problem. However, for the newer sets it is usually quite difficult to obtain replacements until the depots are sufficiently stocked with spares.

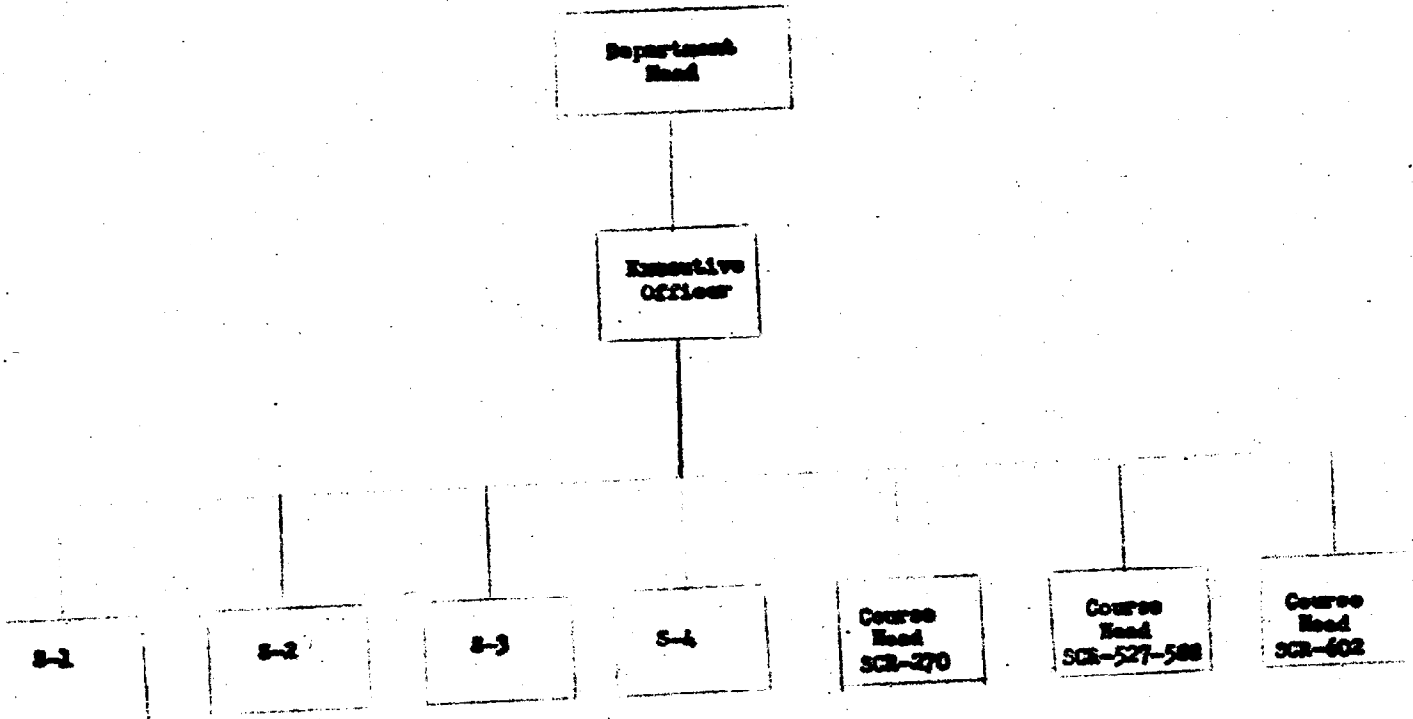
b. Maintenance on all the equipment is handled by a trained maintenance crew who specialize in various phases of the work to be done. Maintenance and repair that cannot be properly accomplished in the department is turned over to either the Signal Section, 26th Sub-Depot, Drew Field or to the Zack street Signal Repair Shop, Tampa, Florida. Repair work on buildings and grounds is partially handled by men in the department and partially by the Base Engineers.

c. Transportation for the department consists of 2- $\frac{1}{2}$  ton trucks and 1- $\frac{3}{4}$  ton truck for general use. There are in addition to these trucks a large number of other vehicles which are part of the mobile radar sets. The required servicing on these vehicles which get very little use is done by the Motor Transport Department of the 588th Signal AN Battalion.

**SECTION V**  
**(Special Staff Activities)**

1. The staff organization of the Radar Department is shown in Figure #1. This organization has been found most practical for the efficient operation of the radar school.
2. The S-1 Officer handles the student and special duty personnel records. All special duty personnel are either assigned or attached to one of the companies of the 588th Signal AN Battalion for rations, quarters and administration. The records that are kept on the students consist of attendance records, weekly grades and a final index file card.
3. The S-2 Officer is the Cryptographic Security Officer and the Custodian of Documents. He gives lectures to the department personnel on Cryptographic security and makes periodic checks on the various activities of the department to see that the provisions of AR 380-5 are complied with. He handles all classified material coming in to and leaving the department.
4. The S-3 Officer is responsible for the proper preparation of training aids and material and coordination of the training conducted in the various courses. The functional organization of the section is broken down into training aids, reproduction and instructor training. The development and construction of training aids is one of the most important activities of this section and includes the building of mockups and drawing of charts and diagrams. The reproduction section reproduces all forms, schedules, quizzes and lesson plans used by the various courses and the department in general. Instructor training and standardization of instructional methods used in the various courses is another important function. Close liaison between the S-3 section and the various course heads is maintained to secure standardization of instruction.
5. The course heads of the various courses are directly responsible for the administration of the classes under their jurisdiction. They prepare the detailed schedules, lesson plans and quizzes used by each class. They supervise the enlisted instructors and continually advise them in methods of improving instruction. All records and grades on the students are prepared and submitted through the various course heads to the Personnel Section of the Department for disposition.





**FIGURE #1**  
**Organization of Radar Department**

**SECTION VI**  
**(Biography and Human Interest)**

1. The following persons who formerly served in various capacities in the Radar Department are now on duty throughout the Training Center in the key positions noted.

Capt Frederick J. Altman, Assistant S-3, ANUTC.  
Maj George T. Bird, Third Air Force Headquarters.  
Capt Myron B. Chandler, Liaison Officer, Tennessee maneuvers.  
Capt Francis E. Delaney, S-3, 500th Signal AN Battalion.  
Capt Daniel E. Farmer, S-3, 1st Signal AN Training Battalion.  
Maj Gordon T. Gould, Assistant Signal Officer, 3rd Fighter Command.  
1st Lt Rowland G. Hazard, Aide-de-Camp, Commanding General, ANUTC.  
Maj George M. Higginson, Commanding Officer, 6th Sig AN Training Bn.  
Capt George M. Lindner, 3rd Signal AN Training Battalion.  
Capt Hugh C. Moore, Inspectors Section, ANUTC.  
Capt Charles A. Ray, Assistant S-3, ANUTC.  
Maj William V. Rettger, S-3, 5th Signal AN Training Battalion.  
Capt Harold T. Schwede, Executive Officer, 3rd Sig AN Training Battalion.  
Capt Clark E. Taylor, S-3, 2nd Signal AN Training Battalion.  
Maj Tom A. Watson, Executive Officer, 6th Sig AN Training Battalion.

2. Perhaps the most colorful and best remembered of the above listed officers is Major William V. Rettger. Particularly for his very active part in the luncheon meetings held every noon in the department office. It was the usual practice for a large number of the officers of the department to bring their lunches and assemble in the office for a round table discussion of current local and world events. Over and above the din emanating from various three cornered arguments could always be heard the vociferous expostulation of the said Major on the current topic of discussion.

3. Perhaps the next best remembered member of the department is Capt Lyle M. Reading, former department head. The progress and development of the department during some of its more trying days was ably guided by Capt Reading. This guidance is reflected in the present organization of the department.

4. In addition to the personnel mentioned in the above paragraphs, a large number of officers and enlisted men from the department have gone into field units and are now serving in various AN set-ups in the numerous war theatres.

Supporting Documents  
To  
History, Radar Department

**SIGNAL AIRCRAFT HAWKING UNIT TRAINING 3<sup>rd</sup> STAGE** 2/3 11-1163-3  
**Designation: Radar Department** WAR DEPARTMENT,  
**Preliminary Oper. and Training Reg. Army AF.**  
 Washington, Jan. 9, 1943

**Table of Distribution**  
 No. 11-1163-3

1	2	3	4	5	6	7	8	9
Unit	Technician Grade	Administration Section	Plans and Training Section	Supply Section	Equipment Section	Instructors Section	Guard Section	TOTAL
1								
2	Captain	1				2		3
3	First Lieutenant		1	1	1	3		6
4	Second Lieutenant					3		3
5	<b>Total Commissioned</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>12</b>		<b>16</b>
6	Master Sergeant, including					2		2
7	Radio repairman, rept. equip. (22)					(2)		(2)
8	Technical Sergeant, including		1		1	4		6
9	Radio repairman, rept. equip. (21)		(1)		(1)	(4)		(6)
10	Staff sergeant, including	1		1	1	12		15
11	Chief clerk (522)	(1)						(1)
12	Motor trans. MCO (813)				(1)			(1)
13	Radio repairman, rept. equip. (22)					(12)		(12)
14	Supply MCO (822)			(1)				(1)
15	Sergeant, including				2	24	1	27
16	Guard-petrolman (522)						(1)	(1)
17	Radio repairman, rept. equip. (22)				(2)	(24)		(26)
18	Corporal, including			1		60	4	65
19	Guard-petrolman (522)						(4)	(4)
20	Radio repairman, rept. equip. (22)					(60)		(60)
21	Supply clerk (835)			(1)				(1)
22	Technician, grade 5 )							8
23	Private, first class } including	10	4	3	8		20	25
24	Private							23
25	Automobile Mechanic (814)				(2)			(2)
26	Clerk, general (855)	(9)						(9)
27	Clerk, supply (835)			(3)				(3)
28	Brakeman, electrical		(2)					(2)
29	Guard-petrolman (522)						(28)	(28)
	Incl. 21							

**REMARKS**  
 The serial number symbol shown in parentheses is an inseparable part of the specialist designation and refers to a civilian or military occupational specialist listed in Army Regulation No. 615-26 dated Sept. 15, 1942.

**Table of Distribution**  
 No. 11-1163-3

1	2	3	4	5	6	7	8	9
Unit	Technician Grade	Administration Section	Plans and Training Section	Supply Section	Equipment Section	Instructors Section	Guard Section	TOTAL
1								
2	Captain		1			2		3
3	First Lieutenant			1	2	3		6
4	Second Lieutenant					3		3
5	<b>Total Commissioned</b>		1	1	2	2		16
6	Master Sergeant, including					2		2
7	Radio repairman, rept. eqpt. (723)					(2)		(2)
8	Technical Sergeant, including			1	1	4		6
9	Radio repairman, rept. eqpt. (723)			(1)	(1)	(4)		(6)
10	Staff sergeant, including		1	1	1	12		15
11	Chief clerk (831)		(1)					(1)
12	Motor trans. MCO (813)				(1)			(1)
13	Radio repairman, rept. eqpt. (723)					(12)		(12)
14	Supply MCO (821)			(1)				(1)
15	Sergeant, including				2	24	1	27
16	Guard-patrolman (522)						(1)	(1)
17	Radio repairman, rept. eqpt. (723)					(2)	(24)	(26)
18	Corporal, including			1		60	4	65
19	Guard-patrolman (522)						(4)	(4)
20	Radio repairman, rept. eqpt. (723)					(60)		(60)
21	Supply clerk (835)			(1)				(1)
22	Technician, grade 5 )							8
23	Private, first class } including		10	4	3	8		25
24	Private							20
25	Automobile Mechanic (814)					(2)		(2)
26	Clerk, general (855)		(9)					(9)
27	Clerk, supply (835)				(3)			(3)
28	Wraftman, electrical			(2)				(2)
29	Guard-patrolman (522)						(26)	(26)
	Incl. in							

**REMARKS**  
 The serial number symbol shown in parentheses is an inseparable part of the specialist designation and refers to a civilian or military occupational specialist listed in Army Regulation No. 615-26 dated Sept. 15, 1942.



**HEADQUARTERS  
GARRISON SCHOOL, AIRCRAFT HANDLING SERVICE  
3RD INTERCEPTOR COMMAND  
DEEN FIELD**

**Tampa, Florida  
January 20, 1942**

**SCHOOL DIRECTIVE No. 1.**

1. Officers and enlisted personnel of the AHS Garrison School are drawn from the AHS Units of the 3rd Interceptor Command. These men are all on Special Duty from the units to which they are assigned.
2. Administration of these men is a function of their unit commander and is not a function of the AHS Garrison School.
3. Recommendations as to passes, leaves, promotions, disciplinary action or other administrative affairs should be made by the department heads or the school director to the unit commander concerned when the situation so warrants.

**For the Director of Training:**

/s/ **Leon E. Eastmond,  
LEON E. EASTMOND,  
1st Lt., Signal Corps,  
Asst. School Director.**

**DISTRIBUTION "A"**

**A TRUE COPY:**

**RALPH J. ANDERSON  
Capt, Signal Corps**

**Incl. # 2**

**A.W.S. TRAINING CENTER, 3D I.C.  
RADIO "B" DEPARTMENT.**

**JANUARY 25, 1942.**

**OUTLINE OF COURSE OF INSTRUCTION.**

1. THE FIRST CLASS IS SCHEDULED TO START WITH 202 MEN, THEY WILL START TRAINING ON JANUARY 25, 1942 IN THREE GROUPS. AFTER THE THIRD DAY, THE SUPERVISORS WILL BE SELECTED AND THEREAFTER THE CLASS WILL BE IN FOUR SECTIONS: OPERATORS, POWER PLANT ATTENDANTS, MAINTENANCE MEN, AND SUPERVISORS. THE COURSE OF INSTRUCTION WILL BE COMPLETED ON FEBRUARY 7, 1942 AT 5:00 PM.

2. BELOW IS LISTED THE QUALIFICATIONS FOR THE SPECIALTIES IN THE COURSE BEING CONDUCTED:

**AIRCRAFT WARNING OPERATORS**

**TRAINED TO PERFORM THE FOLLOWING:**

1. OPERATE THE OSCILLOSCOPE AND ANTENNA SO THAT HE CAN READILY PICK UP AND TRACK PLANES.
2. PLOT AND CONVERT PLOTS FROM POLAR TO RECTANGULAR COORDINATES.
3. ASSIST IN MAKING CABLE CONNECTIONS BETWEEN COMPONENTS OF THE SCR-270-B.
4. ASSIST IN ERECTING THE ANTENNA OF THE SCR-270-B.
5. MANIPULATE THE CONTROLS OF THE TRANSMITTER, KEYER, RECEIVER, WATER COOLER, AND OSCILLOSCOPE, IN TUNING AND OPERATING.

**POWER PLANT ATTENDANTS**

**TRAINED TO PERFORM THE FOLLOWING:**

- INSTALL, OPERATE, AND MAINTAIN THE POWER UNIT PE-74.  
(COURSE IN MOTOR MAINTENANCE  
(COURSE ON RECTIFIER  
(COURSE ON ELECTRICAL SYSTEM  
(COURSE IN INSTALLATION

**AIRCRAFT WARNING MAINTENANCE MEN**

**TRAINED TO PERFORM THE FOLLOWING:**

- INSTALL, TUNE, AND MAINTAIN THE SCR-270-B  
(THEORY OF OPERATION  
(TESTING AND REPAIR, GENERAL  
(INSTALLATION AND TUNING  
(SOLDERING AND SHOP WORK  
(TROUBLE SHOOTING

Incl. # 3



**SUPERVISOR, AIRCRAFT HANDING**

TRAINED SO THAT HE HAS A KNOWLEDGE OF THE DUTIES OF THE MEN OF THE OTHER SPECIALTIES, AND TO SOME DEGREE BE ABLE TO PERFORM THESE DUTIES. IN ADDITION HE WILL BE TRAINED IN THE USE OF THE FREQUENCY METER AND THE RADIO MODULATOR. HE WILL ALSO BE GIVEN INSTRUCTION IN ORIENTATION, SELECTION OF SITES, AND GENERAL PRECAUTIONS.

3. SEE INCLOSURE #1 FOR TRAINING SCHEDULE.

GEORGE M. HIGGINSON  
1ST LT., 559 SIG.A.W.M.  
DEPARTMENT DIRECTOR

1 INCL: SCHEDULE

**DISTRIBUTION:**

CI TO FATO AN TRAINING CENTER  
CI TO SO 3D IG  
CI TO GO AN TRAINING CENTER  
CI TO FILE

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RALPH J. AMERMAN  
Capt, Signal Corps

Incl. # 3

**FIRST COURSE**

**BASES TRAINING SCHEDULE**

**RADIO "B"**

(Subjects in parentheses for the four specialities are concurrent)

<b>SUBJECTS</b>	<b>1st WEEK</b>	<b>2nd WEEK</b>	<b>TOTAL</b>	<b>INSTRUCTOR</b>
<b>ALL</b>				
Familiarization	8		8	all
Installation and Break Down		24	24	all
<b>POWER PLANT ATTENDANTS</b>				<b>Lt. Anderson</b>
Motor Maintenance	(18)		(18)	
Rectifier	(10)	(10)	(20)	
Electrical System	(20)		(20)	
Installation		(22)	(22)	
<b>Total</b>	<b>(48)</b>	<b>(32)</b>	<b>(80)</b>	
<b>MAINTENANCE MEN</b>				<b>Lt. Gould</b>
Installation and Tuning	(15)		(15)	
Theory	(5)		(5)	
Testing and Repair	(8)		(8)	
Soldering and Shop	(20)		(20)	
Trouble Shooting		(32)	(32)	
<b>Total</b>	<b>(48)</b>	<b>(32)</b>	<b>(80)</b>	
<b>OPERATORS</b>				<b>Lt. Hiest</b>
Operation	(46)		(46)	
Transmitter Attending		(10)	(10)	<b>Lt. Byrd</b>
Fletting	(2)		(2)	
Wiring and Connecting		(22)	(22)	
<b>Total</b>	<b>(48)</b>	<b>(32)</b>	<b>(80)</b>	

Incl. # 3

<b>SUBJECTS</b>	<b>1st WEEK</b>	<b>2nd WEEK</b>	<b>TOTAL</b>
<b>SUPERVISORS</b>			
Theory	( 5 )		( 5 )
Frequency Meter and Tweeter Installation and Tuning		( 6 )	( 6 )
Operation	(15)		(15)
Plotting	(14)		(14)
Testing and Repair	( 2 )		( 2 )
Trouble Shooting	( 8 )		( 8 )
Power Plant	( 4 )	(16)	(20)
General Information		( 5 )	( 5 )
		( 5 )	( 5 )
<b>Total</b>	<b>(48)</b>	<b>(32)</b>	<b>(80)</b>
<b>GRAND TOTAL:</b>	<b>(56)</b>	<b>(56)</b>	<b>(112)</b>

**INSTRUCTOR**  
 Lt. Higginson  
 Lt. Farmer

George M. Higginson  
 1st Lt. 553 Sig A/W. Co  
 Department Director

A TRUE COPY:

RALPH J. ANDERMAN  
 Capt., Signal Corps

Incl. # 3

**SCHOOL HEADQUARTERS  
AIRCRAFT WARNING SERVICE TRAINING CENTER  
3RD INTERCEPTOR COMMAND  
Drew Field**

Tampa, Florida  
February 2, 1942.

**SUBJECT: AWTG School**

**TO : Commanding Officer,  
Army Air Base,  
Drew Field, Tampa, Florida.**

Enclosed is the information concerning the organization and purpose  
of the Aircraft Warning Service Training Center School.

For the Director:

**LEON E. EASTMAN,  
1st Lt., Signal Corps,  
Asst Director of Training.**

3 Incls --

Incl 1 -- Training Purposes of AWTG  
School Departments.

Incl 2 -- Roster of Officers on SD to School.

Incl 3 -- Roster of Enlisted Men on SD to School.

A CERTIFIED TRUE COPY:

**OLIVER B. JACKSON  
OLIVER B. JACKSON  
1st Lt., Signal C.**

A TRUE COPY:

**RALPH J. AIDENMANN  
Capt, Signal Corps**

Incl. # 3

A CHECKED TIME COPY:

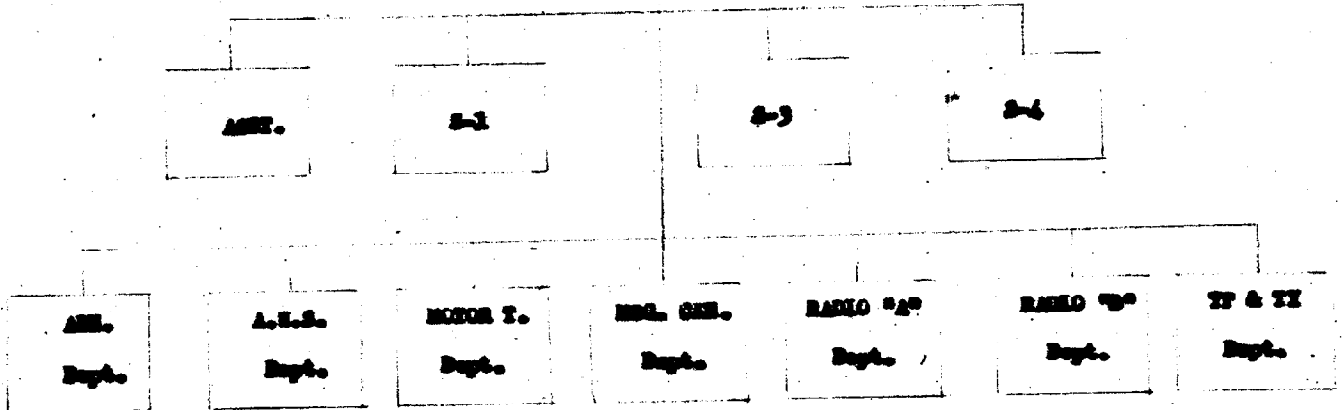
19 Oliver B. Jackson  
CLIVER B. JACKSON  
1st Lt., Signal C.

THE INTERMEDIATE COMMAND  
NUMBER OF TRAINING  
(SIGNAL OFFICERS)

A TIME COPY:

ASST. NUMBER OF TRAINING

RALPH J. MENDEMAN  
Capt., Sig Corps



**TRAINING PURPOSES OF ARMY SCHOOL DEPARTMENTS**

1. **ADMINISTRATION DEPARTMENT** is for the purpose of training men to perform duties of First Sergeant, Supply Sergeant, Mess Sergeant and Clerk.
2. **AIRCRAFT HANDLING SERVICE DEPARTMENT** gives the student training and practice in Filter and Information Centers.
3. **MOTOR TRANSPORT DEPARTMENT** trains Chauffeurs, trackmasters and mechanics.
4. **MESSAGE CENTER DEPARTMENT** trains men for setting up and operating Message Centers.
5. **RADIO "A" DEPARTMENT** gives the student training in basic radio communication.
6. **RADIO "B" DEPARTMENT** gives the student training and practice in operation of Search Aircraft Locating Units.
7. **TELEPHONE AND TELEGRAPH DEPARTMENT** trains men in the installation and operation of telephone, telegraph, and teletype equipment.

**A CERTIFIED TRUE COPY:**

Oliver B. Jackson  
**OLIVER B. JACKSON**  
1st Lt., Signal C.

**A TRUE COPY:**

**RALPH J. AIDENMANN**  
Capt, Signal Corps

2-2-42

**ROSTER OF OFFICERS ON SPECIAL DUTY TO SCHOOL**

**SIGNAL HEADQUARTERS & HEADQUARTERS COMPANY, 3RD INTERCEPTOR COMMAND**

1st Lt. Leon E. BASTENBERG, Sig. C., O-139035 - Ass't. Director of Training  
1st Lt. MILTON L. COULD, Sig. C., O-375195 - AHS Department  
2nd Lt. WILBERT L. SULLIVAN, Sig. C., O-428937 - Personnel Officer  
2nd Lt. FRANK E. KERRLEO, Sig. C., O-385125 - Plans & Training Officer  
2nd Lt. FRANK L. NEWTON, Sig. C., O-428930 - Radio Department "A"  
2nd Lt. GORDON T. COULD, JR., Sig. C., O-23743 - Radio Department "B"

**SIXTH SIGNAL COMPANY, AIR KING**

2nd Lt. GEORGE T. NEASON, Sig. C., O-384581 - T & T Department

**SIGNAL HEADQUARTERS & HEADQUARTERS CO., 41ST SIGNAL BN., SEPARATE. AN**

1st Lt. EMERSON H. BOETHICK, Sig. C., O-367905 - Supply Officer  
1st Lt. GEORGE M. NICHOLSON, Sig. C., O-22003 - Radio Department "B"

**1ST SIGNAL REPORTING COMPANY, 51ST SIGNAL BATTALION, SEPARATE. AN**

1st Lt. HAROLD D. FOSS, Sig. C., O-221926 - Motor Transport Department

**2ND SIGNAL REPORTING COMPANY, 55TH SIGNAL BATTALION, SEPARATE. AN**

Capt. STEPHEN C. BIER, Sig. C., O-381926 - Radio Department "A"  
1st Lt. HARRY M. KINOLM, Sig. C., O-382253 - Motor Transport Department  
2nd Lt. DAVID D. KENNEDY, Sig. C., O-405999 - Radio Department "A"  
2nd Lt. LAWRENCE H. NYVAD, Sig. C., O-399511 - Radio Department "A"  
2nd Lt. RALPH J. AMERDMANN, Sig. C., O-380130 - Radio Department "B"  
2nd Lt. DANIEL E. FARRER, Sig. C., O-399105 - Radio Department "B"

**SIGNAL HEADQUARTERS & HEADQUARTERS COMPANY, 703RD SIGNAL REGIMENT. AN**

Capt. RALPH C. BOWMAN, Sig. C., O-181659 - Administration Department  
2nd Lt. GEORGE L. NILSON, Sig. C., O-263497 - Motor Transport Department

**SIGNAL HEADQUARTERS & HEADQUARTERS CO., SIG. REPORTING BN., 703RD SIG. REGIMENT. AN**

Capt. BENJAMIN W. MARTIN, Sig. C., O-102842 - Radio Department "A"

**1ST SIGNAL REPORTING CO., SIGNAL REPORTING BN., 703RD SIGNAL REGIMENT. AN**

1st Lt. GERALD E. COOPER, Sig. C., O-399922 - Motor Transport Department  
1st Lt. EARL M. HOLEY, Sig. C., O-399354 - Message Center Department  
1st Lt. GERALD J. LAUBENTHAL, Sig. C., O-216481 - Radio Department "B"  
1st Lt. ROBERT E. JOHNSON, Sig. C., O-351915 - Radio Department "B"  
1st Lt. JOHN D. BIRNARD, III, Sig. C., O-363734 - Radio Department "B"  
1st Lt. RUFUS E. LANSBACH, JR., Sig. C., O-368343 - Radio Department "B"  
1st Lt. FRANK T. WISE, IV, Sig. C., O-380339 - Radio Department "B"  
1st Lt. JOSEPH P. McCALL, Sig. C., O-311498 - Radio Department "B"  
2nd Lt. MARION E. THOMAS, Sig. C., O-358389 - Radio Department "B"

Incl. # 5

2-2-42

2ND SIGNAL REPORTING CO., SIGNAL REPORTING BN., 303RD SIGNAL REGIMENT, AM

1st Lt. LESLIE M. FAYNE, Sig. C., O-308427 - Radio Department "B"  
1st Lt. BENJAMIN J. FRENCH, Sig. C., O-308163 - Radio Department "B"  
1st Lt. GALVIN M. MC KEOWN, Sig. C., O-363963 - Radio Department "B"  
1st Lt. WILLIAM V. HETTINGER, Sig. C., O-340254 - Radio Department "B"  
2nd Lt. ROBERT L. FRIMM, Sig. C., O-418929 - Radio Department "B"  
2nd Lt. HARLAND S. LAYCOCK, Sig. C., O-393033 - Radio Department "B"  
2nd Lt. ROBERT L. KIERJACK, Sig. C., O-300080 - Radio Department "B"  
2nd Lt. CHARLES A. RAY, Sig. C., O-374333 - Radio Department "B"  
2nd Lt. RICHARD D. KELLY, Sig. C., O-376036 - Radio Department "B"  
2nd Lt. CHARLES F. KIEGLER, Sig. C., O-303712 - Radio Department "B"

2ND SIGNAL REPORTING CO., SIGNAL REPORTING BN., 303RD SIGNAL REGIMENT, AM

Capt. JANE A. GALLUP, Sig. C., O-314625 - Radio Department "B"  
Capt. DANIEL M. HARKY, Sig. C., O-315184 - Radio Department "B"  
1st Lt. ULRICH O. KASNER, Sig. C., O-363201 - Radio Department "B"  
1st Lt. JOSEPH R. GASON, Sig. C., O-314925 - Radio Department "B"  
1st Lt. PAUL W. BLUM, Sig. C., O-308163 - Radio Department "B"  
2nd Lt. CARL DOLPHIN, Sig. C., O-363795 - Radio Department "B"  
2nd Lt. JOHN R. HENDERSON, Sig. C., O-414242 - Radio Department "B"  
2nd Lt. GEORGE T. BIRD, Sig. C., O-309799 - Radio Department "B"

SIGNAL FLOCKING CO., SIGNAL FLOCKING BATTALION, 303RD SIGNAL REGIMENT, AM

2nd Lt. WILLIAM S. HELM, JR., Sig. C., O-420236 - Radio Department "A"  
2nd Lt. MORGAN K. RICHMOND, Sig. C., O-411162 - Radio Department "B"

SIGNAL REPORTING COMPANY, FRONTIER

1st Lt. EDWARD C. WIST, Sig. C., O-349936 - Radio Department "B"

A CERTIFIED TRUE COPY:

*W* OLIVER B. JACKSON  
OLIVER B. JACKSON  
1st Lt., Signal Co.

A TRUE COPY:

RALPH J. ANDERMAN  
Capt., Signal Corps



2-3-42

ADJUSTMENT TO ROSTER OF OFFICERS

1ST SIGNAL REPORTING COMPANY, 55TH SIGNAL BATTALION, SEPARATE, AM

1st Lt. JOHN R. BRAN, Sig. C., O-283122 - T & T Department

2ND SIGNAL REPORTING COMPANY, SIGNAL REPORTING BN., 30TH SIGNAL REGIMENT, AM

1st Lt. JAMES E. WILSON, Sig. C., O-346229 - T & T Department

SIGNAL HEADQUARTERS & HEADQUARTERS COMPANY, 2ND INTERCEPTOR COMMAND

2nd Lt. STUART ROSCOE O'LEARY, III, Sig. C., O-428079 - T & T Department

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6-1

2-3-42

CHANGE IN ROSTER OF OFFICERS

(DELETE)

SIGNAL PLACING COMPANY, SIGNAL PLACING BN., 30TH SIGNAL REGIMENT, AM

2nd Lt. WILLIAM S. BRAN, JR., Sig. C., O-428836 - Radio Department "A"

(ADD)

2ND SIGNAL REPORTING COMPANY, 55TH SIGNAL BN., SEPARATE, AM

2nd Lt. WILLIAM S. BRAN, JR., Sig. C., O-428836 - Radio Department "A"

A CERTIFIED TRUE COPY:

*/s/* Oliver B. Jackson  
OLIVER B. JACKSON  
1st Lt., Signal C.

A TRUE COPY:

RALPH J. MINDENBACH  
Capt., Signal Corps

Incl. # 5

2-2-42

MASTER OF ENLISTED MEN ON SPECIAL DUTY TO SCHOOL

SIGNAL HEADQUARTERS & HEADQUARTERS COMPANY, 3RD INTERCEPTOR COMMAND

T/Sgt. WILLIAM CLINTON STURGEON, 12003324 - School Headquarters Staff  
S/Sgt. WILLIAM G. DODDS, 32042916 - AHS Department  
S/Sgt. ABE SAMUELS, 6958375 - AHS Department  
Sgt. JOHN F. BACICH, 19028835 - Radio Department "A"  
Sgt. HERBERT E. HANISER, 14001561 - Teletype Department  
Corp. ROBERT A. BERGQUIST, 32021997 - T & T Department  
" JOSEPH C. FRENZL, 12019507 - T & T Department  
Pvt. DANIEL M. McKINNON, 14064601 - Radio Department "A"

SIGNAL FLOTTOING COMPANY, 553RD SIGNAL BATTALION, SEPARATE, AM

Sgt. EVERETT H. GIBSON, 14025520 - Teletype Department  
" JEWELL C. BELLARD, 6399447 - T & T Department  
Corp. HARRY B. YOUNG, 14004023 - T & T Department  
Pvt. FERGUS L. HODGES, 34171402 - School Headquarters Staff  
" NORMAN J. HATHENSON, 31049855 - Radio Department "A"  
" ALBERT E. VAN HALE, 32109963 - Radio Department "A"  
" JACK FALLAY, 32174376 - Radio Department "A"  
" WILLIAM MORRISON, 31111151 - Radio Department "A"  
" DON J. POLLING, 18032125 - Radio Department "B"  
" JESSE M. HOPKINS, JR., 31120002 - Teletype Department  
" JACK KAMMEL, 32136069 - AHS Department  
" EDWARD STUMPF, 34152179 - AHS Department  
" WOODROW SUGG, 34171788 - AHS Department  
" EDWARD J. SULLIVAN, JR., 31050294 - Administration Department

1ST SIGNAL REPORTING COMPANY, 553RD SIGNAL BATTALION, SEPARATE, AM

Corp. SAMUEL B. HENES, 14025562 - T & T Department  
Pvt. RICHARD J. RINN, 31120118 - School Headquarters Staff  
" STEWART E. GRASSFORD, 33067735 - School Headquarters Staff  
" DANIEL N. TOMPKINSON, 31119947 - School Headquarters Staff  
" DELMA E. FIELDS, 34036928 - Motor Transport Department  
" CLIVER B. JACKSON, 34082124 - Message Center Department  
" HOWARD E. JOHNSON, 33067600 - Message Center Department  
" MANSION VAN B. JENNINGS, 32170591 - Radio Department "A"  
" FRANK B. WELSH, 31101697 - Radio Department "A"  
" FRANCIS T. HUCK, 31111237 - AHS Department  
" MORTON HOFFMAN, 31119921 - AHS Department  
" LOUIS BRIGGS, 34036923 - AHS Department  
" SOL KOCHNICK, 31111730 - Administration Department

2ND SIGNAL REPORTING COMPANY, 553RD SIGNAL BATTALION, SEPARATE, AM

N/Sgt. FRANK H. JENNINGS, 6275427 - Radio Department "B"  
S/Sgt. HARRY O. WILLIAMS, 6375502 - School Headquarters Staff  
Sgt. GILBERT E. MEYERS, 6937126 - Radio Department "B"  
" LAMON B. HUNLBURT, 12009273 - Radio Department "B"  
Corp. CHARLES E. ROBBINS, 13410641 - Radio Department "B"  
" JAMES L. McKEEY, 12019752 - Radio Department "B"

Incl. # 3

2ND SIGNAL BATTAL, B COMPANY, 53RD SIGNAL BATTAL, SEPARATE, AM. (CONT'D)

- Corp. GEORGE J. SAMARDELICH, 39197516 - Radio Department "B"  
 " HOWARD G. AMES, JR., 35120970 - Radio Department "B"  
 Pfc. SAMUEL F. KINKERD, JR., 30030704 - Radio Department "B"  
 " EUGENE V. HENRY, 33008444 - Radio Department "B"  
 " VICTOR J. ANDERSON, 39014212 - Radio Department "B"  
 " CHARLES L. HAMMILL, 34081227 - Radio Department "B"  
 " Edward A. MAAS, 33036717 - Radio Department "B"  
 " THOMAS A. PATRICK, 34032106 - Radio Department "B"  
 " LUTHER B. SMITH, JR., 34081049 - Radio Department "B"  
 " ARTHUR W. SPYAM, 35121873 - Radio Department "B"  
 " WILLARD E. STRICKLAND, 34091116 - Message Center Department  
 Pvt. EDWARD J. MOWMAN, 32173519 - School Headquarters Staff  
 " MANUEL D. FELDMAN, 33100706 - School Headquarters Staff  
 " HAROLD L. FRIEDMAN, 32172803 - School Headquarters Staff  
 " EMANUEL F. MICHIE, 33073783 - School Headquarters Staff  
 " ARTHUR C. RYE, 34097303 - School Headquarters Staff  
 " HARRY L. BRAITHWAITE, 33090696 - Motor Transport Department  
 " PHILLIP L. CHUISE, 32173171 - Motor Transport Department  
 " JACQUES GOLDSPEINER, 32174374 - Radio Department "A"  
 " JAMES B. SMITH, 33066271 - Radio Department "A"  
 " EDWARD FERGUSON, 32161440 - Radio Department "A"  
 " HERBERT HAMILMAN, 32161971 - Radio Department "A"  
 " STANLEY GOSEEL, 32161037 - Radio Department "A"  
 " MURRAY FISHER, 32172696 - Radio Department "A"  
 " MEYER LIPSHITZ, 32174609 - Radio Department "A"  
 " NELSON MORNENSTEIN, 32173597 - Radio Department "A"  
 " FRANCIS E. BROWN, 33062128 - Radio Department "B"  
 " HENRY KATZ, 34035197 - Radio Department "B"  
 " WILLIAM E. CAFFEY, 32153895 - Radio Department "B"  
 " HARRY KENN, JR., 34021925 - Radio Department "B"  
 " JOHN T. BRADLEY, JR., 34033034 - Radio Department "B"  
 " PATRICK J. DONLON, 32171940 - Radio Department "B"  
 " WILLIAM S. BECK, JR., 34082183 - Radio Department "B"  
 " JOHN W. DUNMOND, 32071087 - Radio Department "B"  
 " CLYDE R. KREAGER, 33031806 - Radio Department "B"  
 " TIMOTHY R. LONG, 33035554 - Radio Department "B"  
 " EARL H. FAARCE, 37054447 - Radio Department "B"  
 " ROY L. BOHRMAN, 34082148 - Radio Department "B"  
 " HARVEY E. ANSKIN, 38021789 - Radio Department "B"  
 " BURR H. BRANDLEY, 39232616 - Radio Department "B"  
 " RAYMOND CUNNINGHAM, JR., 38042122 - Radio Department "B"  
 " HERBERT V. HENRY, 38055273 - Radio Department "B"  
 " FRANK L. LAUGH, 35120999 - Radio Department "B"  
 " FREDRICK W. MITCHELL, 39094252 - Radio Department "B"  
 " CONRAD G. WRIGHT, 36110083 - Radio Department "B"  
 " HAROLD G. ARMSTRONG, 34035199 - Radio Department "B"  
 " FRED FULLER, 32028691 - AMS Department  
 " HENRY V. BRINDLE, 31090280 - AMS Department  
 " DONALD BRISSETT, 31013855 - AMS Department

SIGNAL HEADQUARTERS & HEADQUARTERS CO., 53RD SIGNAL BATTAL, SEPARATE, AM

Pvt EDWARD G. KLIPPERS, 34151984 - School Headquarters Staff

SIGNAL HEADQUARTERS & HEADQUARTERS CO., SIGNAL BATT. 503RD SIG. REGT., AF

Pvt. ANDREW J. CRANFORD, 3909664 - Radio Department "B"

1ST SIGNAL REPORTING CO., SIGNAL REPORTING BATTALION, 503RD SIGNAL REGIMENT, AF

Pvt. MORRIS, WILLIAM H., 34171944 - School Headquarters Staff  
• WOODROW H. WILSON, 33111078 - School Headquarters Staff  
• J. D. BOYD, 33066916 - Radio Department "A"  
• WAYNE WARMACK, 3308052 - Radio Department "A"  
• JAMES F. SHIFF, 6874923 - Radio Department "A"  
• EDWIN W. McNER, 34167696 - Teletype Department

2ND SIGNAL REPORTING CO., SIGNAL REPORTING BATTALION, 503RD SIGNAL REGIMENT, AF

Pvt. ADAM E. PACLUCCI, 32172804 - School Headquarters Staff  
• VINCENT E. WAKILENSKI, 35045264 - Radio Department "A"  
• ANGELO L. FARRARI, 32168327 - Radio Department "A"  
• JAMES M. SINGLETON, 33088441 - Radio Department "A"  
• KAREL SUNKIDER, 34146752 - Radio Department "A"  
• JOHN BOLL, 32168430 - Radio Department "A"  
• STANLEY J. LICHTA, 32172285 - Radio Department "A"  
• GEORGE E. RICKETS, 39013474 - Radio Department "A"  
• JOSEPH WILSON, 32112481 - Radio Department "A"  
• ROBERT LEOGREN, 34152204 - AMS Department

3RD SIGNAL REPORTING CO., SIGNAL REPORTING BATTALION, 503RD SIGNAL REGIMENT, AF

Pvt. EUGENE MILBANK, 32171217 - School Headquarters Staff  
• WILLIAM H. BOLL, 35045761 - School Headquarters Staff  
• JOHN E. HUTTO, 34098086 - Message Center Department  
• JAMES V. HARLAN, 33066830 - Radio Department "A"  
• J. J. MORA, 31039070 - Radio Department "A"  
• JOHN D. TAYLOR, 33119414 - AMS Department  
• JOSEPH E. OBERN, 33067624 - Administration Department  
• EARL W. DEWAYES, 36123927 - Radio Department "B"  
• VICTOR M. ENGLE, 32098718 - Radio Department "B"  
• MARTIN GILBERTSON, 34115477 - Radio Department "B"  
• LLOYD E. HILL, 37090360 - Radio Department "B"  
• ROBERT M. KEITH, 33094908 - Radio Department "B"  
• ROBERT A. KIRBY, 38022549 - Radio Department "B"  
• HERBIE LAHLER, 38062612 - Radio Department "B"  
• ELMER LEE, 39602612 - Radio Department "B"  
• CHARLES PORTIS, 35105635 - Radio Department "B"  
• FRANK STANON, 32160936 - Radio Department "B"  
• MARTIN A. VISCOCCI, 32098718 - Radio Department "B"

SIGNAL HEADQUARTERS & HEADQUARTERS CO., SIGNAL BATTALION, 503RD SIG. REGT., AF

Pvt. G. M. NIGGLOSI, 32173040 - Radar Department "A"

SIGNAL FLOTING COMPANY, SIGNAL FLOTING BATTALION, 503RD SIGNAL REGIMENT, AF

Pvt. NICHAN H. HUGLES, 34056817 - Administration Department

SIGNAL COMMUNICATIONS CO., SIGNAL FLIGHTING BATTALION, 50TH SIGNAL REGIMENT, AM

- Pvt. EDGAR S. ANDERSON, 34056718 - School Headquarters Staff
- PATRICK H. SPAN, 34056980 - School Headquarters Staff
- RAYMOND V. LAFFEY, 34056548 - Motor Transport Department
- WILLIAM P. MORRIS, 32056215 - Radio Department "A"
- MILNER E. CRANK, 38029443 - Radio Department
- ELMER L. WYLAND, 32119349 - Administration Department
- E. J. THOMAS, 38080005 - School Headquarters Staff

50TH SIGNAL FLIGHTING COMPANY, FRONTIER

- Pvt. WILLIAM A. BONNEN, 32168650 - Motor Transport Department
- CLIFFORD C. BOOTH, 33076003 - Motor Transport Department

65TH SIGNAL REPORTING COMPANY, FRONTIER

- Pvt. HUGH J. BOBIN, 34152504 - Motor Transport Department

66TH SIGNAL REPORTING COMPANY, FRONTIER

- Pvt. JACK HONER, 34146754 - AMS Department

SIGNAL HEADQUARTERS & HEADQUARTERS COMPANY, 50TH SIGNAL REGIMENT, AM

- Sgt. WILLIAM L. PORTER, 14025516 - School Headquarters Staff
- Pvt. HILES B. SHREFFLER, 33101475 - School Headquarters Staff
- BARRON B. KENNEDY, 34097049 - Administration Department

A CERTIFIED TRUE COPY:

Oliver B. Jackson  
OLIVER B. JACKSON  
1st Lt., Signal C.

A TRUE COPY:

RALPH J. ANDERMAN  
Capt, Signal Corps

**SCHOOL HEADQUARTERS  
AIRCRAFT WARNING SERVICE TRAINING CENTER  
3RD INTERCEPTOR COMMAND  
Brew Field**

Tampa, Florida  
February 11, 1942

**SCHOOL PERSONNEL**

	<u>RECIPIENTS</u>	<u>Enlisted</u>	<u>Total</u>
School Headquarters	5	23	28
Radio "A" Department	5	33	38
Radio "B" Department	33	58	91
Message Center Department	1	4	5
Motor Transport Department	4	9	13
T & T Department	4	11	15
Administration Department	4	9	13
A. W. S. (Plotting) Department	<u>1</u>	<u>14</u>	<u>15</u>
<b>TOTAL</b>	<b>97</b>	<b>162</b>	<b>259</b>

A CERTIFIED TRUE COPY:

/s/ OLIVER B. JACKSON  
/s/ OLIVER B. JACKSON  
1st Lt, Signal Co.

A TRUE COPY:

RALPH J. MEIDEMANN  
Capt, Sig Corps

Incl. # 6

A.W.S. TRAINING CENTER, 3D I.C.  
RADIO "B" DEPARTMENT

Drew Field, Florida  
February 20, 1942

**SUBJECT:** Plan for Night School.  
**TO :** Director Air Training School Training Center.

1. In order to obtain the maximum use of the equipment on hand, it is considered necessary to start training at night. Students of the eight weeks course (Basic Specialist) will attend. At present, they are enrolled as follows:

503RD SIGNAL REGIMENT A.A.

Headquarters Co., Reporting Co.	4
1st Reporting Company	9
2nd Reporting Company	4
3rd Reporting Company	26
TOTAL REGIMENT - - - - -	43

553RD SIGNAL BN. A.A. SEPARATE

1st Reporting Company	27
2nd Reporting Company	34
TOTAL BATTALION - - - - -	61

660TH SIGNAL REPORTING CO. FRONTIER	36
661ST SIGNAL REPORTING CO. FRONTIER	67
662ND SIGNAL REPORTING CO. FRONTIER	87
663RD SIGNAL REPORTING CO. FRONTIER	82
TOTAL FRONTIER - - - - -	272

TOTAL NIGHT SCHOOL - - - - - 374

2. This class does not include any men of the 504th Regiment A.A.
3. The schedule will be from 5 PM to 12 midnight, Monday thru Friday each week.
4. In order to effect this, the following will be necessary:
  - a. These students must be fed supper at 4 PM each Monday thru Friday.

b. They will march to the Radio "B" enclosure to arrive at 4:35 PM.

c. They will be dismissed at midnight, and should be fed sandwiches and hot coffee or cocoa at some mess hall at that time.

d. Students must be free of company duty and excused from reveille the morning following if they have been to school.

4. Section marshals are being notified that classes will begin at 5 PM Monday, February 23, 1942.

GEORGE M. HIGGINS  
1st Lt., 553 Sig AN Sq,  
Department Director

A TRUE COPY:

RALPH J. ANDERMAN  
Capt., Signal Corps

Incl. # 7



A. W. S. TRAINING CENTER 3D I. C.  
RADIO "B" DEPARTMENT

FEBRUARY 19, 1942

SUBJECT: Additional Personnel

TO : Director, A. W. S. T. C.

1. Request the following named enlisted men be placed on special duty with this department as instructors in the Basic Specialist course;

1st. Reg. Co., 553 Sig. A. W. Bn.

Pfc. Olin R. White 34102530

Pfc. Robert F. Spaulding 34095221

3D Reg. Co., 303 Regt.

Pfc. Gerald Broadbeck 35120446

Pfc. Ernest L. Wilson 35122038

Pfc. Lester Hinn 6962607

2. This request is submitted to effect losses in instructors personnel.

GEORGE M. HIGHMICH  
1ST. LT., 553 SIG. A.W. BN.  
DEPARTMENT DIRECTOR.

A TRUE COPY:

RALPH J. AMERMAN  
Capt, Signal Corps

Incl. # 8

220

1st Ind.

LEE/yr

SCHOOL HEADQUARTERS, AIRCRAFT HANDLING SERVICE TRAINING CENTER, 3RD INTERCEPTOR  
COMMAND, New Field, Tampa, Florida, February 24, 1942. TO: Radar Department,  
ANWTC, New Field, Tampa, Florida.

Basic communication complied with.

LEON E. EASTWOOD,  
1st Lt., Signal Corps  
Asst Director of Training

A TRUE COPY

RALPH J. ANDERMAN  
Capt, Signal Corps

Incl. # 8

**A. W. S. TRAINING CENTER 3D I. C.  
RADAR DEPARTMENT**

**Drew Field, Fla.  
26 March, 1942.**

**PROPOSED PLAN FOR RADAR DEPT.**

The school to include instruction in SCR-270-B and SCR-268.

Maximum Students	268	•	300
"	270	•	400

Course of instruction to last for 4 weeks. This will include basic and team training. During this time men will do no company duty or guard. School 6 days per week, 8 hours per day.

At conclusion of 4 weeks they will return to their organization.

Sometime during the following 4 weeks each man will be taken out for field training for a period of three days.

At the above rate 600 students can be turned out per month, as compared to the present rate of handling 600 every 8 weeks, and they will have had better and more complete training.

**GEORGE M. NICKLASON  
1st Lt. Signal Corps  
Department Director**

**A TRUE COPY**

**RALPH J. AIDENMAN  
Capt, Signal Corps**

**Incl. # 9**

RADAR DEPARTMENT "B" STAGE  
Aircraft Warning Unit Training Center  
Drew Field

As9

220.454

Tampa, Florida.  
October 12, 1942.

**SUBJECT:** Change in Staff Personnel

**TO :** Commanding Officer, "B" Stage,  
Aircraft Warning Unit Training Center,  
Drew Field, Tampa, Florida.

Request the following named enlisted men be added to our Staff Roster as indicated:

S/Sgt Murray, William F.	19021085	CM905	Instructor-278
Pvt Tragers, Theodore S.	36601246	D-901	Supply
Pvt Elsher, Carroll H.	33201582	D-901	Supply
Pvt Gurtner, Ray F.	34358954	F-901	Supply
Pvt Fountain, John H.	34358980	F-901	Supply
Pvt Neupin, Shirley H.	34288534	F-901	Supply

/s/ George M. Higginson  
GEORGE M. HIGGINSON  
Capt, Signal Corps  
Department Head

220.454

1st Ind

618

HEADQUARTERS "B" STAGE AIRCRAFT WARNING UNIT TRAINING CENTER, Drew Field  
Tampa, Florida, November 25, 1942. TO: Department Head, Radar Department  
"B" Stage Aircraft Warning Unit Training Center, Drew Field, Tampa, Fla.

Accomplished.

By Order of CAPTAIN GODFREY

/s/ John R. Henderson  
JOHN R. HENDERSON  
1st Lt., Sig C  
Personnel Officer

A THREE COPIES

RALPH J. SINDERSMAN  
Capt, Signal Corps

Incl. # 18

RADAR DEPARTMENT "B" STAGE  
Aircraft Warning Unit Training Center  
Drew Field

AIS

X10.454

Tampa, Florida.  
October 17, 1942.

SUBJECT: Change in Staff Personnel.

TO : Commanding Officer, "B" Stage,  
Aircraft Warning Unit Training Center,  
Drew Field, Tampa, Florida.

Request the following named Commissioned Officer be added to our  
Staff Roster as indicated:

2nd Lt Durane B. Burton

O-364285

HR503

S-4

/s/ Lyle M. Reading  
/w/ LYLE M. READING  
Capt, Sig Corps  
Department Head

X10.454

1st Ind

Cis

HEADQUARTERS "B" STAGE, AIRCRAFT WARNING UNIT TRAINING CENTER, Drew Field,  
Tampa, Florida, November 1, 1942. TO: Department Head, Radar Department  
"B" Stage, Aircraft Warning Unit Training Center, Drew Field, Tampa, Fla.

Accomplished

By order of Major FLOYD:

/s/  
/w/ John R. Henderson  
JOHN R. HENDERSON  
1st Lt., Signal Corps  
Personnel Officer

A TRUE COPY:

RALPH J. ALDERMAN  
Capt, Signal Corps

Incl. # 11

HEADQUARTERS "B" STAGE  
AIRCRAFT WARNING UNIT TRAINING CENTER  
Brew Field

OSF

Tampa, Florida  
January 9, 1943

SUBJECT: Unit Journals.

TO : Department Heads, Staff Section Heads, "B" Stage,  
Aircraft Warning Unit Training Center  
Brew Field, Tampa, Florida

1. Effective 0001, January 11, 1943, a unit journal will be maintained by each department and staff section head in the form shown on the attached sample. Each journal will cover the period from 0001 to 2400, daily, and will be forwarded to reach this office not later than 1000, the following morning. Handwriting, if legible, may be used, and a carbon copy may be kept if desired. Brevity will apply.

2. The journal will be used to record the following type of information:

a. Records of conversations with other department or staff members, and personnel outside this Stage, covering important incidents, agreements, decisions, etc., which would not otherwise be put in writing.

b. Records of incidents, accomplishments, and findings not of sufficient importance to warrant a separate written report, which might not otherwise be brought to the attention of the Commanding Officer.

c. Items relative to school history.

/s/ Ralph F. Stiehl  
/s/ RALPH F. STIEHL  
Lt. Col., Sig C  
Commanding

1 Incl.  
Sample Journal

A TRUE COPY:

RALPH J. MUDENMANN  
Capt, Sig Corps

Incl. # 12

**HEADQUARTERS**  
**2nd Signal Aircraft Warning Training Battalion**

**GENERAL ORDERS**  
**No. 1**

**Brow Field, Tampa, Florida**  
**May 1, 1943**

**Corrected COPY**

1. Organization of the 2nd Signal Aircraft Warning Training Battalion. Pursuant to the authority contained in Paragraph 3, a, General Order No. 12, Headquarters, Aircraft Warning Unit Training Center, dated April 30, 1943, the organization of the 2nd Signal Aircraft Warning Training Battalion, as of 12:01 A.M. May 1, 1943, is announced.

2. Assumption of Command. Pursuant to directive contained in Special Order No. 96, Paragraph 39, Headquarters, Aircraft Warning Unit Training Center, dated April 30, 1943, the undersigned hereby assumes command.

3. Units Attached. Pursuant to authority contained in Paragraph 4, b, General Order No. 12, Headquarters Aircraft Warning Unit Training Center, dated April 30, 1943, the following departments, Preliminary Operational Training, are attached to this Headquarters for command and administration:

- a. Administration Department
- b. Information Center Department
- c. Motor Transport Department
- d. Telephone and Telegraph Department
- e. Radar Department
- f. Radio Department

/s/ Louis A. Cary  
/w/ LOUIS A. CARY  
Major, Signal Corps.

**A TRUE COPY**

**RALPH J. ANDERMAN**  
Capt, Sig Corps

**Incl. # 13**

**RADAR DEPARTMENT  
2nd Signal AN Training Battalion  
Drew Field**

**Tampa, Florida.  
May 6, 1943.**

**ORDERS )  
No 1 )**

1. Having been asgd this Hq per Par 9 SO 102 Hq ANUTC dtd 6 May 1943 the undersigned hereby assumes command.

**/s/ Lyle M. Reading  
LYLE M. READING  
Captain, Signal Corps,  
Commanding.**

**A TRUE COPY**

**RALPH J. MUEHLMANN  
Capt, Signal Corps**

**Incl. # 14**



School Form #1  
(Revised: 5-7-43)

A BUREAU

**RALPH J. BRADSHAW**  
Capt., Signal Corps

RADAR Department

Date 25 JUNE 1943

DAILY ENROLLMENT

COURSE	1ST WEEK	2ND WEEK	3RD WEEK	4TH WEEK	5TH WEEK	6TH WEEK	7TH WEEK	8TH WEEK	9TH WEEK	10TH WEEK	11TH WEEK	12TH WEEK	TOTAL
OPERATIONS	65	72	65	74									276
RADAR INSTALLATION	24	19	26	26		22		22	19				197
OPERATIONS	45	66	70	67									248
RADAR INSTALLATION	26	27		9									62
F.P.S.		3	7										10
G.C.I.			11	9									20
OPERATIONS	97	83											180
OPERATIONS	15	13											28
F.P.S.	15												15
OPERATIONS	37	15											52
F.P.S.	15	15	12	10									52
<b>TOTAL</b>	<b>309</b>	<b>297</b>	<b>282</b>	<b>285</b>		<b>22</b>		<b>22</b>	<b>19</b>				<b>1129</b>

• 4 WEEK COURSE  
 \*\* 10 MEN OF THE 727th SAN CO., 3 WEEKS COURSE  
 7 MEN TAKING 12 WEEKS COURSE

Total Enrollment for  
Department - 1129

Incl. # 25

**WILLIAM H. BRADSHAW**  
Capt., Sig Corps  
Department Head

**RADAR DEPARTMENT  
2nd Signal AM Training Battalion  
Drew Field**

**Tampa, Florida  
8 August 1943**

**ORDER NO 2**

1. Under the provisions of AR 600-20, the undersigned hereby assumes command.

/s/ Alfred L. Coffman  
/w/ ALFRED L. COFFMAN  
Capt Sig C

**A TRUE COPY:**

**RALPH J. AMMERMAN  
Capt, Signal Corps**

**Incl. # 16**

SIG-514-HI (BN)

RETURN TO:

Director  
Research Studies Institute  
Attn: Archives Branch  
Maxwell AFB, Alabama

5 14 5 1