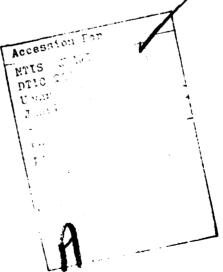


TABLE OF CONTENTS

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	PAGE NUMBER
PREFACE	iii
SUMMARY OF RESULTS	iv
INTRODUCTION	1
SURVEY METHODOLOGY	3
JOB STRUCTURE ANALYSIS	7
ANALYSIS OF DAFSC GROUPS	19
COMPARISON OF SURVEY DATA TO AFR 39-1 SPECIALTY DESCRIPTIONS	25
ANALYSIS OF MAJOR COMMAND DIFFERENCES	26
ANALYSIS OF CONUS VERSUS OVERSEAS GROUPS	33
ANALYSIS OF AIRCRAFT	38
TRAINING ANALYSIS	41
JOB SATISFACTION INDICATORS	70
IMPLICATIONS	74
APPENDIX A	75



PREFACE

This report presents the results of a detailed Air Force Occupational Survey of the Integrated Avionics Manual Test Station and Component Specialty. The project was directed by USAF Program Technical Training, Volume 2, dated June 1980. Authority for conducting occupational surveys is contained in AFR 35-2. Computer printouts from which this report was produced are available for use by operating and training officials.

The United States Air Force occupational survey program originated in 1956 when the Air Force Human Resources Laboratory began the initial research into developing the methodology for conducting occupational surveys. In 1967, Air Training Command established an occupational survey program which produced 12 enlisted career ladder surveys annually. The program was expanded in 1972 to produce surveys of 51 career ladders each year and again in 1976 to include the survey of officer utilization fields, to permit special management applications projects, and to support interservice or joint service occupational analyses.

The survey instrument used in this project was developed by Captain Gary Patterson, Inventory Development Specialist. Captain Linda Wiekhorst analyzed the survey data and wrote the final report. This report has been reviewed and approved by Lieutenant Colonel Jimmy L. Mitchell, Chief Airman Career Ladders Analysis Section, Occupational Analysis Branch, USAF Occupational Measurement Center, Randolph AFB, Texas 78150.

Copies of this report are available to air staff sections, major commands, and other interested training and management personnel upon request to the USAF Occupational Measurement Center, attention to the Chief, Occupational Survey Branch (OMY), Randolph AFB, Texas 78150.

This report has been reviewed and is approved.

PAUL T. RINGENBACH, Col, USAF Commander USAF Occupational Measurement Center WALTER E. DRISKILL, Ph.D. Chief, Occupational Analysis Branch USAF Occupational Measurement Center

SUMMARY OF RESULTS

1. <u>Survey</u> Objective: This report was requested by the Training Staff officer (HQ ATC/TTQG). Key issues include use of survey data to determine job variations and training requirements since a restructuring of the avionic systems career field. Additionally, a question was raised as to the feasibility of shredding at the 7-skill level.

2. Survey Coverage: USAF job inventory booklets were administered worldwide to personnel in the 326X5A, 326X5B, and 32675 specialties from December 1980 to April 1981. The 309 respondents represent approximately 72 percent of the assigned AFSC 326X5 population. Each shred is adequately represented, with 70 percent of the A-shred, and 62 percent of the B-shred personnel assigned responding.

3. Job Structure: Three clusters and one independent job type were identified. Each cluster is characterized by an AFSC--326X5A (F/FB-111), 326X5B (F-15), and 32675. The F/FB-111 cluster respondents show the most diversity in jobs, specializing in various test station maintenance functions. The F-15 cluster respondents formed only two job types based on experience and perform a very homogeneous function. Senior personnel grouped into a management cluster, and training personnel formed a separate independent job type.

4. <u>DAFSC</u> <u>Analysis</u>: A normal progression of responsibilities is performed from the 3- to 7-skill level. Shred designations at the 3- and 5-skill level for aircraft specific systems tend to force this progression from technical (3and 5-skill levels) to supervisory (7-skill levels) tasks. AFS 326X5A respondents indicated a greater difference in responsibilities between the 3and 5-skill level, than did AFS 326X5B respondents; no substantial difference was found between 3- and 5-skill level F-15 respondents. The only commonality between the A- and B-shred are general test station and LRU maintenance tasks.

5. <u>AFR 39-1</u> <u>Specialty Descriptions</u>: The major functions performed by all skill level personnel are included in the current specialty descriptions. Considering the diverse types of test stations and LRU's AFS 326X5 personnel maintain or operate, the specialty descriptions provide a good general overview of the functions they perform. Minor additions of some commonly performed forms and supply functions could provide a more comprehensive specialty description.

6. <u>Major Command Analysis</u>: Several differences are apparent among operational major commands utilizing AFS 326X5 personnel. For the AFS 326X5A and 32675 respondents, many of these differences are a function of the particular model(s) of aircraft involved and its associated equipment. Unlike the AFS 326X5A personnel, the 326X5B specialty incumbents show very little variation between major command or model of aircraft.

7. Job Satisfaction Indicators: A definite difference appears between AFS 326X5A and AFS 326X5B respondents in job attitudes. AFSC 326X5A (F/FB-111) incumbents responded much more positively than AFS 326X5B (F-15) respondents, especially in the area of perceived utilization of talents and training. Reenlistment intentions, however, are consistent for both specialty shreds.

8. <u>Training Analysis</u>: First enlistment personnel were found in each of the jobs involving technical skills. A solid core of tasks is performed by first-termers in each shred. These tasks were rated high in training emphasis and tended to be equipment specific, focusing on F/FB-111 or F-15 tasks. Training documents (STS and POI) are generally comprehensive; however, several items of equipment utilized by specialty respondents were not mentioned.

9. Implications: Survey data indicate different jobs are performed by AFS 326X5A, 326X5B, and 32675 personnel. The only commonality exists in the performance of very general test station, LRU, or forms maintenance. These data tend to confirm the current classification structure as accurate through the 5-skill level. Although 7-skill level personnel perform common supervisory and management functions, they also perform technical tasks specific to each aircraft system (shred). Important to note is that most OJT is performed by 7-skill level personnel. The technical tasks performed by 7-skill levels would indicate a need for shred designations through the 7-skill level. It will be difficult, however, to have 7-skill level shredouts with such a small 7-skill level population.

OCCUPATIONAL ANALYSIS OF THE INTEGRATED AVIONICS MANUAL TEST STATION AND COMPONENT SPECIALTY (AFSCs 326X5A, 326X5B, AND 32675)

I. INTRODUCTION

This is a report of an occupational survey of the Integrated Avionics Manual Test Station and Component Specialty, with two shred designations, AFS 326X5A for F/FB-111 aircraft and AFS 326X5B for F-15 aircraft manual test stations. The survey was initiated at the request of Training Staff personnel (HQ ATC/TTQG) to determine job content and training requirements since restructuring the avionic systems career field in October 1978 and April 1979. Previous occupational surveys involving the functions currently performed by AFS 326X5 personnel were conducted in March 1975 and September 1975. Due to the complexity of the classification changes since 1975, no comparison could be made between current survey responses and 1975 findings.

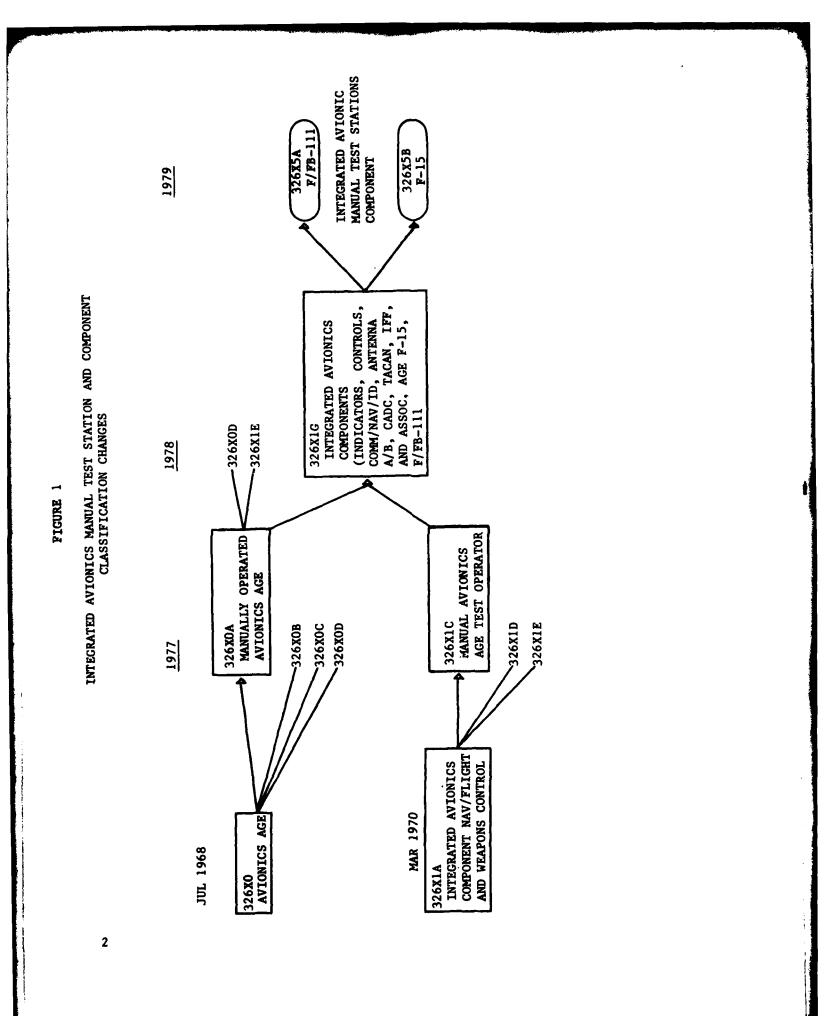
Background

As outlined in the AFR 39-1 Specialty Descriptions, AFS 326X5 personnel maintain, install, calibrate, and certify avionics manual test stations/consoles. They work with integrated avionic systems components to the intermediate maintenance level, as well as associated support equipment.

The integrated avionics specialties have undergone several major classification changes since their creation. As the technology surrounding avionic systems has evolved, so has the classification of these systems. Functions of the present day 326X5 specialty were originally performed by the 326X0 Avionics AGE and 326X1A Integrated Avionics Component Navigation/Flight and Weapons Control specialties (see Figure 1). In 1977, the first of several classification changes for these specialties occurred. The 326X0 and 326X1A specialties were shredded according to type of avionics; manual, automatic or electronic warfare (EW), with the 326X0A and 326X1C becoming the manual portion. The distinction between Avionics AGE and Avionics components continued (326X0A and 326X1C respectively) until 1978 when test station and LRU maintenance were combined. AFS 326X1G became the designator for manual integrated avionics for the F-15 and F/FB-111 aircraft systems. The most recent classification change to AFS 326X5, effective in 1979, changed the name and designated shreds through the five level for personnel maintaining F/FB-111 (A-shred) and F-15 (B-shred) aircraft systems. An additional shred (C) is planned for personnel working on F-16 aircraft.

Formal training for specialty members is available at Lowry AFB, CO. The 3ABR32635A F/FB-111 course is 108 days, and the 3ABR32635B F-15 course is 75 days. Upon completion, graduates are awarded a 3-skill level and are assigned to various F-15 or F/FB-111 units worldwide.

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Objectives

This report will examine the Integrated Avionics Manual Test Station and Components specialty on the basis of tasks performed and the time spent on these tasks by the survey respondents. Using occupational survey data along with other sources, Air Force managers can determine the most efficient way to classify and manage these manpower resources. Topics discussed in this report include: (1) development and administration of the survey instrument; (2) the job structure relationship of the specialty in regards to AFSC, shred, and experience level; (3) comparisons between shreds; (4) the training emphasis and task difficulty of integrated avionics tasks relating to manual test stations; (5) comparisons of the job structure and other survey data with specialty documents, such as AFR 39-1 Specialty Descriptions, Specialty Training Standards, and Plans of Instruction; and (6) job satisfaction and related background information.

II. SURVEY METHODOLOGY

Inventory Development

The data collection instrument for this occupational survey was USAF Job Inventory AFPT 90-326-428E. As a starting point, tasks from the previous inventories were reviewed and revised through a comprehensive research of publications and directives, and through interviews with training and classification personnel. The task list was then evaluated in the field through personal interviews with 21 subject matter specialists. These personal interviews were conducted at Lowry AFB, Plattsburg AFB, Cannon AFB, Nellis AFB, Barksdale AFB, Mt. Home AFB, Langley AFB, and Kelly AFB. The resulting job inventory contained a comprehensive listing of 751 tasks grouped under 20 duty headings and a background section containing such information as grade, duty title, time in service, equipment used, and job satisfaction.

Survey Administration

During the period December 1980 through April 1981, Consolidated Base Personnel Offices (CBPOs) in operational units worldwide administered the inventory to job incumbents holding a 326X5 DAFSC. These respondents were selected from a computer generated mailing list obtained from personnel data tapes maintained by the Air Force Human Resources Laboratory (AFHRL).

Each individual who completed the inventory first completed an identification and biographical information section and then checked each task performed in their current job. After checking all tasks performed, each member then rated each of these tasks on a nine-point scale showing relative time spent on the task as compared to all other tasks checked. The ratings ranged from one (very small amount time spent) through five (about average time spent) to nine (very large amount time spent). To determine relative time spent for each task checked by a respondent, all an incumbent's ratings are assumed to account for 100 percent of his or her time spent on the job and are summed. Each task is then divided by the total task ratings and multiplied by 100. This procedure provides a basis for comparing tasks in terms of both percent members performing and relative percent time spent.

Task Factor Administration

In addition to completing the job inventory, selected senior personnel assigned to F/FB-111 and F-15 units were also asked to complete a second booklet for either training emphasis or task difficulty. The task difficulty and training emphasis rating booklets are processed separately for the job inventories. This information is used in a number of different analyses discussed in more detail within the report.

Task Difficulty. Each senior NCO completing a task difficulty booklet was asked to rate only the tasks related to the aircraft system they maintain test stations for. The tasks are rated on a nine-point scale from extremely low to extremely high as to the relative difficulty of that task. Difficulty is defined as the length of time it requires an average person to learn to do that task. Task difficulty data were independently solicited from experienced 7- or 9-skill level personnel stationed worldwide in each shred. The interrater reliability (as assessed through components of variance of standard group means) for the 20 F/FB-111 and 23 F-15 raters who returned booklets was .86 and .89, respectively. Due to the small population of senior (7-skill level personnel) in the specialty, sampling was difficult and the interrater agreement is somewhat lower than desirable, but is within allowable limits. Ratings were adjusted so that tasks of average difficulty have ratings of 5.00. The resulting data is a rank ordering of tasks indicating a degree of difficulty for each task in the inventory.

Training Emphasis. Individuals completing training emphasis booklets were also asked to rate only the tasks related to the aircraft system they maintain test stations for. These tasks were rated on a ten-point scale from no training required to extremely heavy training. Training emphasis is a rating of tasks indicating where emphasis should be placed in structured training for first term personnel. Structured training is defined as training provided at resident technical schools, Field Training Detachments (FTD), Mobile Training Teams (MTT), formal OJT, or any other organized training The interrater reliability (as assessed through components of method. variance of standard group means) for these raters was also well within limits (.92 and .96, respectively, for the F/FB-111 and F-15 raters), indicating there is good agreement among raters within each aircraft system as to which tasks required some form of structured training and which did not. Tasks rated by the 23 raters in the A-shred (F/FB-111) had an average training emphasis rating of 2.6 and a standard deviation of 3.0. Tasks rated by the 23 raters in the B-shred (F-15) had an average training emphasis rating of 1.3 and a standard deviation of 2.6. (The low average ratings and high standard deviations is largely a function of surveying two specialities in the same instrument; this does not affect the relative ordering of tasks by emphasis recommended, which is the main objective).

When used in conjunction with other factors, such as percent members performing, the task difficulty and training emphasis ratings can provide an insight into the training requirements of each speciality. This kind of information may help validate the lengthening or shortening of specific units of instruction to refine various training programs.

Survey Sample

Personnel were selected to participate in this survey so as to insure accurate representation across MAJCOM and paygrade groups. Table 1 reflects the percentage distribution, by major command, of assigned personnel in each specialty as of March 1981. Also reflected is the distribution, by major command, of incumbents in the final survey sample. The 309 respondents making up the final sample represent 72 percent of the 326X5 specialty (or 80 percent of those eligible to participate). Tables 2 and 3 reflect the distribution of the survey sample in terms of paygrade and AFMS groups. Generally the survey sample provides adequate representation of all segments of the specialty.

TABLE 1

COMMAND DISTRIBUTION OF SURVEY SAMPLE

	AFS 3	26X5A	AFS 326X5B		AFS	32675
	PERCENT OF	PERCENT OF	PERCENT OF	PERCENT OF		PERCENT OF
COMMAND	ASSIGNED	SAMPLED	ASSIGNED	SAMPLED	ASSIGNED	SAMPLED
	•				•	-
ATC	8	8	9	9	9	7
SAC	33	34	-	-	10	9
TAC	33	29	48	55	29	29
USAFE	26	29	21	22	44	45
PACAF	-	-	19	14	8	6
OTHER	-	-	3	-	-	4
TOTAL 326X5A ELIGIBLE FOR SURVEY - 155 TOTAL 326X5A IN SAMPLE - 109 PERCENT OF 326X5A SAMPLED - 70% TOTAL 32675 ELIGIBLE FOR SURVEY - 82 TOTAL 32675 IN SAMPLE - 82* PERCENT OF 32675 SAMPLED - 100% TOTAL 326X5 ASSIGNED - 428 TOTAL ELIGIBLE FOR SURVEY** - 386 NUMBER OF ELIGIBLE RETURNED - 309 RETURN RATE - 80% *INCLUDES TWO AFS 32699 RESPONDENTS **Y CLUDES TWO AFS 32699 RESPONDENTS			TOTAL PERCEN	326X5B IN SAU T OF 326X5B \$	1PLE - 118 SAMPLED - 62%	

PAYGRADE DISTRIBUTION OF SURVEY SAMPLE

	AFS 3	26X5A	AFS 3	AFS 326X5B AFS 32675		32675
PAYGRADE	PERCENT OF ASSIGNED	PERCENT OF SAMPLE	PERCENT OF ASSIGNED	PERCENT OF SAMPLE	PERCENT OF ASSIGNED	PERCENT OF SAMPLE
AIRMAN	28	31	33	19	-	-
E-4	47	49	40	54	-	-
E-5	25	20	27	27	14	25
E-6	-	-	-	-	62	56
E-7	-	-	-	-	24	19

TABLE 3

AFMS DISTRIBUTION OF SURVEY SAMPLE

	MONTHS TIME IN SERVICE				
AFS	1-48	49-96	97+	TOTAL	
<u>326X5A</u>					
NUMBER IN SAMPLE Percent of 326x5A Sampled	71 65%	30 2 8%	8 7%	109 100%	
<u>326X5B</u>					
NUMBER IN SAMPLE Percent of 326x5b sampled	75 64%	30 25 %	13 11%	118 100%	
<u>32675</u>					
NUMBER IN SAMPLE Percent of 32675 Sampled	-	5 6%	77 94%	82 100%	
TOTAL SAMPLE					
NUMBER IN SAMPLE PERCENT 326X5 SAMPLED	146 47%	65 21%	98 32%	309 10 0%	

III. RESULTS

JOB STRUCTURE ANALYSIS

A key aspect of the USAF occupational analysis program is to examine the structure of specialities--what people are actually doing in the work environment rather than how official career field documents say they are organized. This analysis is made possible by the Comprehensive Occupational Data Analysis Programs (CODAP). These programs generate a number of statistical products used in the analysis of a specialty. To organize each individual's job into similiar units of work, an automated job clustering program is used. This hierarchial grouping program is a basic part of the CODAP system. Each individual's responses form a job description. Each job description in the sample is compared to every other job description in terms of the types of tasks performed and the relative amount to time spent on each task in the inventory. The automated system is designed to locate the two job descriptions with the most similar tasks and percent time ratings and to combine them to form a group with a composite job description. In successive stages, other members were added to the initial group or new groups are formed based on the similarity of tasks and percent time ratings in each individual job description. This procedure is continued until all individuals and groups are combined to form a single composite representing the total sample. The resulting analysis of each job group identifies: (1) the number and characteristics of the different jobs which exist within the Integrated Avionics Manual Test Station and Component specialty; (2) the tasks which tend to be performed together by the same respondents; and (3) equipment and demographic information which may be peculiar to specific functional requirements as they exist at the time of the survey. The information is then used to examine the accuracy and completeness of present career field documents (AFR 39-1 Specialty Descriptions, Specialty Training Standards, etc.) and to formulate an understanding of current utilization patterns.

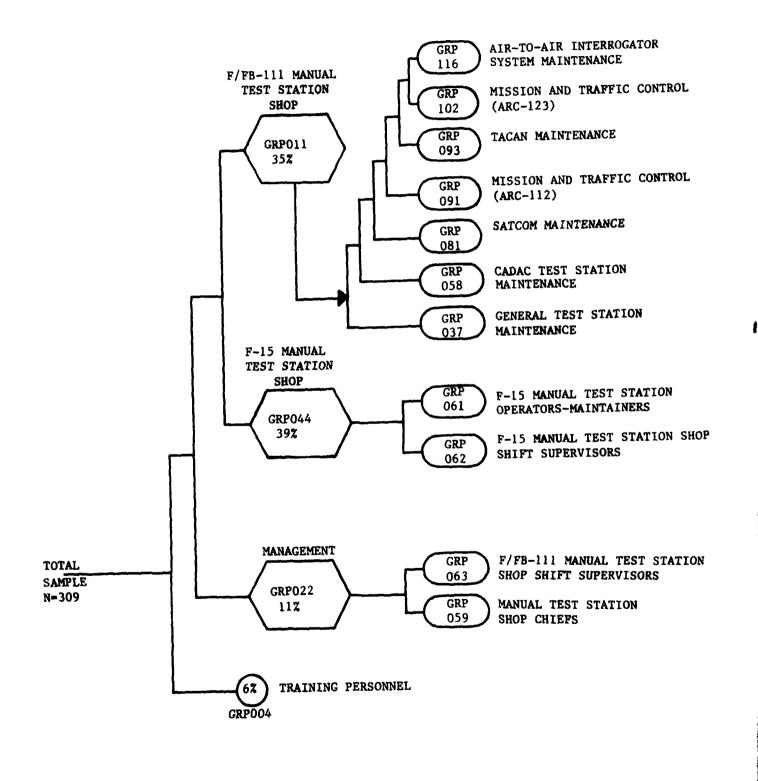
The basic identifying group used in the hierarchical job structure is the Job Type. A job type is a group of individuals who perform many of the same tasks and who spend similar amounts of time performing these tasks. When there is a substantial degree of similarity between different job types, they are grouped together in a <u>Cluster</u>. Finally, there are often specialized jobs that are too dissimilar to be grouped into any cluster. These unique groups are labeled Independent Job Types.

Job Structure Overview

For the 326X5 specialty, the job structure analysis identified four major areas of specialization (three clusters and one independent job type). These areas are distinguished on the basis of shop maintenance (F-15 or F/FB-111), supervision, or training functions. Several common maintenance functions are performed by both F-15 and F/FB-111 test station shop personnel. Representative tasks of this nature include:

FIGURE 2

INTEGRATED AVIONICS MANUAL TEST STATION AND COMPONENTS JOB STRUCTURE



install caps, plugs, or dust covers on test stations, test equipment or LRUs pressurize LRUs visually inspect or clean LRUs clean test station blower filters perform confidence checks of test stations visually inspect or clean test stations perform periodic inspections of test stations inventory test stations or rollaways inspect equipment for correct calibration dates order parts by telephone remove or replace test station light bulbs, fuses or minor hardware perform functional checks or test and inspection (T and I) of LRUs issued from supply

Overall, 47 tasks were responded to by 30 percent or more of both F-15 and F/FB-111 test station maintenance cluster personnel. In conjunction, four pieces of test equipment--the Emergency Radio Test Equipment Groups (AN/URM-95A), Identification-Friend-or-Foe (IFF) Mode IV Computer Test Equipment Groups (KIR/KIT), Instrument Landing System (ILS) Test Sets, and Radar Test Sets AN/UPM-137--are also utilized by all test station shop maintenance personnel. As illustrated in Figure 2, the various clusters and independent job type grouped in the following manner according to similarity of tasks performed and the relative percent time spent on those tasks:

- I. F/FB-111 MANUAL TEST STATION SHOP PERSONNEL CLUSTER (GRP011, N=108)
 - a. Tactical Air Navigation (TACAN) Maintenance personnel (GRP093, N=8)
 - b. Air-to-Air Interrogator (AAI) System Maintenance (GRP116, N=6)
 - c. Mission and Traffic Control (ARC-123) Personnel (GRP102, N=40)
 - d. Mission and Traffic Control (ARC-112) Personnel (GRP091, N=13)
 - e. Satellite Communications (SATCOM) Maintenance Personnel (GRP081, N=9)
 - f. Central Air Data Computer (CADC) Test Station Maintenance Personnel (GRP058, N=7)
 - g. General Test Station Maintenance Personnel (GRP037, N=7)
- II. F-15 MANUAL TEST STATION SHOP PERSONNEL CLUSTER (GRP044, N=122)
 - a. F-15 Manual Test Station Shop Shift Supervisors (GRP062, N=5)
 - b. F-15 Manual Test Station Operators-Maintainers (GRP061, N=114)
- III. MANAGEMENT PERSONNEL CLUSTER (GRP022, N=34)
 - a. F/FB-111 Manual Test Station Shop Shift Supervisors (GRP063, N=15)
 - b. Manual Test Station Shop Chiefs (GRP059, N=8)
- IV. TRAINING PERSONNEL (GRP004, N=18)

Ninety-one percent of the respondents in the sample were found to perform jobs within the groups listed above. The remaining nine percent (28 respondents) did not meaningfully group together. This nine percent included seven AFS 326X5A, six AFS 326X5B, and 15 32675 personnel. Some of the job titles given by respondents which were representative of these personnel included mobility NCO, special assistant to the maintenance supervisor, maintenance training NCO, Quality Control Inspector, and DIFM monitor.

Group Descriptions

The following paragraphs contain brief job descriptions of the clusters, job types, and independent job type identified through the job structure analysis. Selected background and job satisfaction data are provided for these groups on Table 4. Representative tasks for all clusters and independent job types are presented in Appendix A along with background data for the job type groups.

I. F/FB-111 MANUAL TEST STATION SHOP PERSONNEL CLUSTER (GRP011, N=108). Personnel in this group account for approximately 85 percent of all AFS 326X5A respondents in this survey. Group members are assigned to various commands, USAFE (38 percent), SAC (34 percent), and TAC (28 percent). Over half of the cluster (57 percent) indicated being in their first enlistment. In addition to general maintenance functions previously discussed, the technical tasks listed below are the most commonly performed by cluster respondents:

perform periodic inspections of test equipment align, benchcheck, or isolate malfunctions in F/FB-111 anticollision lights research microfiche for part information benchcheck F/FB-111 Central Air Data computers benchcheck F/FB-111 maximum safe mach assmeblies isolate malfunctions in F/FB-111 maximum safe mach assemblies to SRUs or chassis benchcheck F/FB-111 fuel quantity intermediate devices benchcheck F/FB-111 ARC-164 UHF receiver transmitters

Tasks listed above are only a few of those most commonly performed; overall 191 tasks are performed by 50 percent or more of the cluster incumbents. The high number of commonly performed tasks and the natural clustering of AFS 326X5A respondents indicates a function distinct from other survey respondents. Several Avionics AGE test stations, or test equipment groups, are utilized by a majority of the cluster respondents including systems, such as Central Air Data Computers (12A1803A1), Communications and Navigational Aids Test Stations (12A16850), Identification-Friend-or-Foe (IFF) Mode IV Computer Test Equipment Groups (KIR/KIT), IFF Test Equipment Groups (AN/APX-64 Hot Mock-Ups), Radar Test Sets AN/UPM-137, Instrument Landing System (ILS) Test Sets, and Ultra High Frequency (UHF) Test Equipment Groups (AN/ARC-164 Hot Mock-Ups). Although all cluster respondents indicated working in a manual test station shop, seven variations in the job performed by cluster members are identifiable.

Job types are distinguished by the emphasis group members place on the maintenance of particular system(s), such as TACAN, AAI, SATCOM, Mission and Traffic Control and CADC systems or general test station maintenance. Background information and job satisfaction data for each of the job type groups within the cluster is presented on Tables A1 and A2 in Appendix A.

<u>Tactical Air Navigation (TACAN) Maintenance Personnel (GRP093)</u> are assigned to SAC units and work on FB-111A aircraft. Most group members (63 percent) are in their first enlistment. Tasks related to maintaining Central Air Data Computer test stations take up most of the groups time, which is also characterized by the maintenance of TACAN (AN/ARN-84) or IFF Mode IV computer test equipment groups:

> isolate malfunctions in F/FB-111 ARN-84 TACAN system receiver transmitters to SRUs or chassis benchcheck F/FB-111 ARN-84 TACAN radio set controls or system receiver transmitters remove or replace F/FB-111 Mode IV computer SRUs remove or replace F/FB-111 ARN-84 TACAN system receiver transmitter SRUs isolate malfunctions in F/FB-111 Mode IV computers to SRU or chassis benchcheck F/FB-111 Mode IV computers

Most respondents (63 percent) also indicated maintaining only one set of test stations, and could work either days or swing shifts. In addition to the TACAN (AN/ARN-84 Hot Mock-up) test equipment group, test sets used by group members include Radar Test sets AN/UPM-137, Mission and Traffic Control Test Stations (12A16879), Satellite Communications Test Stations, and Signal Data Converter Test Stations.

Assigned overseas in TAC units working on F-111D aircraft are <u>Air-to-Air (AAI) System Maintenance Personnel (GRP116)</u>. Five of the six group members are in their first enlistment. Tasks distinguishing group members focus on maintenance of APX-76 Air-to-Air Interrogator (AAI) equipment:

> isolate malfunctions on F/FB-111 APX-76 AAI receiver transmitters to SRU, chassis or bit and piece align or benchcheck F/FB-111 APX-76 AAI-76 switch amplifiers align or benchcheck F/FB-111 APX-76 AAI-76 AAI synchronizers remove or replace F/FB-111 APX-76 AAI receiver transmitter bits and pieces align F/FB-111 APX-76 AAI receiver transmitters

In addition to the Air-to-Air Interrogator Test Equipment (AN/APX-76 Hot Mock-ups), used by these job type members, the Mission and Traffic Control Test Station (12A16849), and Electrical Test Station (12A3409) are also utilized. Group respondents indicated working various shifts (day, swing, midnight), and maintain three or four sets of test stations. Also assigned overseas, <u>Mission and Traffic Control (ARC-123)</u> <u>Personnel</u> (<u>GRP102</u>) are assigned primarily in <u>USAFE</u> and work on F-111F or F-111E aircraft. The test stations used by members in this job type include Mission and Traffic Control Test Stations (12A16849), Emergency Radio Test Equipment Groups (AN/URM-95A), Electrical Test Stations (12A3409), Signal Data Converter Test Stations, and TACAN Test Equipment Groups (AN/ARN-84 Hot Mock-ups). Overall, group members indicated maintaining three sets of test stations. Tasks representative of the job type are:

> isolate malfunctions in F/FB-111 ARC-123 HF receiver transmitters, HF amplifier power supplies, HF antenna couplers, HF radio set controls to bit and piece isolate malfunctions in F/FB-111 HF antenna couplers to SRU or chassis remove or replace F/FB-111 ARC-123 HF receiver transmitters, HF amplifier power supplies, or HF radio set control bits and pieces remove or replace F/FB-111 ARC-123 HF radio set control SRUs

Respondents perceive their talents and training as utilized fairly well or better.

The CONUS counterpart of the above job type, <u>Mission and Traffic</u> <u>Control (ARC-112) Personnel (GRP091)</u>, do not perceive their talents and training as being as well utilized. These TAC respondents are assigned to units maintaining F-111A. Group members are distinguished by the maintenance of ARC-112 high frequency (HF) equipment. Nine of the 13 group members are in their first enlistment. Incumbents indicated maintaining four sets of test stations versus three for ARC-123 HF personnel. Both Mission and Traffic Control Personnel job type groups tend to use the same avionics AGE test stations and equipment. The primary difference is that ARC-112 HF personnel use the TACAN (AN/ARN-118 Hot Mock-up) Test Equipment Group and ARC-123 HF personnel use the AN/ARN-84 Hot Mock-up. Distinguishing tasks performed by job type members include:

> align or benchcheck F/FB-111 ARC-112 HF receiver transmitters align or benchcheck F/FB-111 ARC-112 HF amplifier power supplies isolate malfunctions in F/FB-111 ARC-112 HF receiver transmitters to SRUs, chassis or bit and piece isolate malfunctions in F/FB-111 ARC-112 HF amplifier power supplies to SRUs, chassis or bit and piece benchcheck F/FB-111 ARC-112 radio set controls remove or replace F/FB-111 ARC-112 HF receiver transmitter bits and pieces.

Another job type distinguished by unique equipment is the <u>Satellite Communi-</u> cations (SATCOM) <u>Maintenance Personnel (GRP081)</u> group. All nine members of this group are in their first enlistment, assigned to SAC, and work on FB-111A or F-111A aircraft. Unique also are the high job satisfaction responses, with 100 percent of the group feeling their job is interesting, and perceiving their talents and training as well utilized. Tasks such as those listed below characterize this job type:

align or benchcheck FB-111 SATCOM printers benchcheck FB-111 ARC-171 radio set controls, receiver transmitters, or SATCOM controls remove or replace FB-111 SATCOM control SRUs isolate malfunctions in FB-111 SATCOM input/output control logic power supplies to SRU or chassis isolate malfunctions in FB-111 SATCOM teleprinters to SRU or chasis isolate malfunctions in FB-111 ARC-171 receiver transmitters to SRU or chassis remove or replace FB-111 ARC-171 receiver transmitter SRUs

In addition, respondents indicated working primarily a day shift and maintaining one set of test stations. Test stations used by members of this include Satellite Communications Test Stations, Mission and Traffic Control Test Stations (12A16879), and TACAN Test Equipment Groups (AN/ARN-84 Hot Mock-ups).

<u>Central Air Data Computer (12A1831) Test Station Maintenance Personnel</u> (<u>GRP058</u>) also work on F-111A or FB-111A aircraft. Like the previous job type, these respondents are assigned primarily in SAC (71 percent); the remaining group members are in USAFE (29 percent). These respondents perform the maintenance on CADC test stations not performed by the TACAN Maintenance personnel previously discussed. Distinctive tasks performed by these respondents involve:

> transfer data from F/FB-111 flight recorder 30-track tape magazines to 7- track tapes isolate malfunctions in F/FB-111 12A1803A1 test station digital comparators to SRU or chasis isolate malfunctions in F/FB-111 12A1803A1 test station angle position indicators to SRU chassis isolate malfunctions in F/FB-111 12A1803A1 test station dual power supplies to bit and piece safety wire F/FB-111 central air data computer SRUs remove or replace F/FB-111 12A1803A1 test station automatic control panel bits and pieces remove or replace F/FB-111 12A1803A1 test station digital comparator SRUs

Respondents in this group indicated maintaining one set of test stations, and work various shifts, such as days, swings, or midnight. Three people in this group retrained from the 326X0A specialty and the remaining four people are in their first enlistment. All group members perceived their talents and training to be well utilized.

Having the most limited job within the cluster are <u>F/FB-111</u> <u>General Test</u> <u>Station Maintenance Personnel (GRP037)</u>. All seven group members are in their first enlistment and are distributed throughout SAC and USAFE working on F-111D/E and FB-111A aircraft. As is characteristic of jobs performed by the most inexperienced personnel in a specialty, these respondents perform the smallest average number of tasks, 42 less than any other job type within the cluster. Tasks performed concentrate on general LRU maintenance, many of which are performed by all groups in the cluster. Group respondents did, however, also report performing maintenance of simulators or mock-ups:

perform corrosion control of F/FB-111 simulators or mock-ups perform confidence checks of F/FB-111 simulators or mock-ups perform periodic inspections of F/FB-111 simulators or mock-ups remove or replace F/FB-111 simulator or mock-up light bulbs, fuses or minor hardware place test equipment in storage areas benchcheck F/FB-111 oil pressure indicators

Respondents indicated working day or swing shifts and maintaining one to three sets of test stations. Only one of the seven group members intends to reenlist, although most group members find their job interesting.

II. F-15 MANUAL TEST STATION SHOP PERSONNEL CLUSTER (GRP044, N=122). Like the F/FB-111 Manual Test Station Cluster personnel, respondents in this cluster maintain manual test stations. Characteristic of this cluster are tasks typical of test station maintenance personnel and those tasks which are unique to F-15 aircraft systems. The cluster represents 90 percent of all AFS 326X5B personnel in the survey, indicating a homogeneous job structure within the 326X5B specialty. Further illustrating this point is the fact that only two job groups were identifiable within the cluster. The most common technical tasks relate to the maintenance of equipment using the AN/GSM-229 or AN/GSM-230 test stations. Representative tasks are:

align, assemble, dissassemble or benchcheck F-15 radar system antennas isolate malfunctions in F-15 radar system antennas align or benchcheck F-15 radar system low voltage power supplies align or benchcheck F-15 radar system transmitters benchcheck F-15 radar system low voltage power supplies isolate malfunctions in F-15 radar system transmitters align or benchcheck F-15 integrated or main communications control panels isolate malfunctions in F-15 integrated communications control panels isolate malfunctions in F-15 radar system low voltage power supplies isolate malfunctions in F-15 APX-76 radio-receiver transmitters benchcheck or align F-15 APX-76 radio-receiver transmitters isolate malfunctions in F-15 motion picture cameras

In addition, incumbents maintain APX-101 radio receiver transmitters, controller aircraft grip assemblies, generator control units, or fuel quantity indicators. These tasks are only representative samples of the tasks and responsibilities of the cluster. Overall, group members perform an average of 142 tasks. Various Avionics AGE test stations or test equipment groups used by incumbents include: Antenna A or B (AN/GSM-228) Test Stations; Communications, Navigation, and Identification Test Stations (AN/GSM-230), Emergency Radio Test Equipment Groups (AN/URM-95A); Identification-Friend-or-Foe (IFF) Mode IV Computer Test Equipment Groups (KIR/KIT), Indicators and Controls Test Stations (AN/GSM-229), Instrument Landing System (ILS) Test Sets and Radar Test Sets (AN/UPM-137). Most respondents indicated maintaining two sets of test stations. Group members are assigned primarily to TAC (53 percent), with the remaining personnel in USAFE (26 percent), PACAF (17 percent), and ATC (four percent).

perform corrosion control of F/FB-111 simulators or mock-ups perform confidence checks of F/FB-111 simulators or mock-ups perform periodic inspections of F/FB-111 simulators or mock-ups remove or replace F/FB-111 simulator or mock-up light bulbs, fuses or minor hardware place test equipment in storage areas benchcheck F/FB-111 oil pressure indicators

Respondents indicated working day or swing shifts and maintaining one to three sets of test stations. Only one of the seven group members intends to reenlist, although most group members find their job interesting.

II. F-15 MANUAL TEST STATION SHOP PERSONNEL CLUSTER (GRP044, N=122). Like the F/FB-111 Manual Test Station Cluster personnel, respondents in this cluster maintain manual test stations. Characteristic of this cluster are tasks typical of test station maintenance personnel and those tasks which are unique to F-15 aircraft systems. The cluster represents 90 percent of all AFS 326X5B personnel in the survey, indicating a homogeneous job structure within the 326X5B specialty. Further illustrating this point is the fact that only two job groups were identifiable within the cluster. The most common technical tasks relate to the maintenance of equipment using the AN/GSM-229 or AN/GSM-230 test stations. Representative tasks are:

align, assemble, dissassemble or benchcheck F-15 radar system antennas isolate malfunctions in F-15 radar system antennas align or benchcheck F-15 radar system low voltage power supplies align or benchcheck F-15 radar system transmitters benchcheck F-15 radar system low voltage power supplies isolate malfunctions in F-15 radar system transmitters align or benchcheck F-15 integrated or main communications control panels isolate malfunctions in F-15 integrated communications control panels isolate malfunctions in F-15 radar system low voltage power supplies isolate malfunctions in F-15 APX-76 radio-receiver transmitters benchcheck or align F-15 APX-76 radio-receiver transmitters isolate malfunctions in F-15 motion picture cameras

In addition, incumbents maintain APX-101 radio receiver transmitters, controller aircraft grip assemblies, generator control units, or fuel quantity indicators. These tasks are only representative samples of the tasks and responsibilities of the cluster. Overall, group members perform an average of 142 tasks. Various Avionics AGE test stations or test equipment groups used by incumbents include: Antenna A or B (AN/GSM-228) Test Stations; Communications, Navigation, and Identification Test Stations (AN/GSM-230), Emergency Radio Test Equipment Groups (AN/URM-95A); Identification-Friend-or-Foe (IFF) Mode IV Computer Test Equipment Groups (KIR/KIT), Indicators and Controls Test Stations (AN/GSM-229), Instrument Landing System (ILS) Test Sets and Radar Test Sets (AN/UPM-137). Most respondents indicated maintaining two sets of test stations. Group members are assigned primarily to TAC (53 percent), with the remaining personnel in USAFE (26 percent), PACAF (17 percent), and ATC (four percent).

Two job types are identifiable within the cluster, distinguished by experience and supervisory responsibilities:

> a. F-15 Manual Test Station Shop Shift Supervisors (GRP062, N=5) b. F-15 Manual Test Station Operators-Maintainers (GRP061, N=114)

The more experienced job type, <u>Shift Supervisors (GRP062)</u>, perform technical tasks while taking on substantial supervisory responsibilities. Tasks distinguishing these E-5 or E-6 personnel are:

> evaluate individuals for promotion, demotion, or reclassification maintain precision measurement equipment (PME) calibration schedules prepare APR's evaluate individuals for recognition review maintenance data collection records forms (AFTO 349) for accuracy supervise integrated avionics manual test station and component specialists (F-15) (AFSC 32655B)

Respondents indicated working on various models of the F-15 aircraft. All five group members indicated plans to reenlist.

The <u>Operators-Maintainers (GRP061)</u>, however, are not as satisfied with their job (see Table A3 in Appendix A) and only 39 percent intend to reenlist. Technical tasks relating to the maintenance of indicators and controls assigned to the AN/GSM-229 test station are performed more by members of this job type. Representative tasks include:

> benchcheck F-15 built-in-test control/display panels benchcheck F-15 altitude indicators benchcheck F-15 controller aircraft grip assemblies benchcheck avionics status panels benchcheck F-15 angle-of-attack transmitters benchcheck F-15 mach speed indicators

These tasks are only a few of the average 146 tasks performed by group members, 49 more than the shift supervisors. It is unusual for supervisory job group respondents to perform fewer tasks than subordinates. Sixty percent of the Shift Supervisors, however, retrained from AFSCs outside the 326XX career field.

III. MANAGEMENT PERSONNEL CLUSTER (GRP022, N=34). Clustering on the basis of management and supervisory responsibilities, these incumbents have an average of 17 years in the service. All group members supervise AFS 326X5 personnel. The broad nature of management level positions makes any specific description difficult. Tasks such as those listed below are the most commonly performed by cluster incumbents:

> interpret policies, directives, or procedures for subordinates determine work priorities counsel personnel on personal or military related matters write correspondence prepare or endorse APR's evaluate individuals for recognition evaluate compliance with performance standards certify status of reparable, servicable, or condemned parts

Most respondents (62 percent) indicated retraining from another specialty.

Two job types are identifiable within the cluster:

- a. F/FB-111 Manual Test Station Shop Shift Supervisors (GRP059, N=8)
- b. Manual Test Station Shop Chiefs (GRP063, N=15)

Background information for these two job types is presented on Table A4 in the Appendix. Unlike the F-15 Shift Supervisors who grouped within the cluster of shop personnel, the <u>F/FB-111</u> <u>Manual Test Station Shop Shift</u> <u>Supervisors (GRP059)</u> performed management related tasks more than technical tasks. Incumbents indicated 47 percent of their time is spent in implementing, inspecting, evaluating, directing, organizing, or planning functions. F-15 Shift Supervisors only indicate spending 23 percent of their time on these functions. Technical tasks performed by F/FB-111 Shift Supervisors focus on general test station maintenance versus the F-15 Shift Supervisors who tend to perform test station specific tasks.

<u>Manual Test Station Shop Chiefs (GRP063)</u> are 7-skill levels with an average grade of E-6. Over 90 percent of their time is spent in supervisory, management, administrative, supply, and training functions. Distinctive tasks include:

supervise integrated avionics manual test station and component technicians (AFSC 32675) participate in meetings, such as staff meetings, briefings, conferences, or workshops prepare replies to inspection reports counsel trainees on training progress plan work assignments conduct OJT

As the most experienced job type, 47 percent are eligible to retire, and 47 percent plan to reenlist. All members of this job group work a day shift.

IV. TRAINING PERSONNEL (GRP004, N=18). Included in this independent job type are instructors, course supervisors, CDC, and technical writers; each emphasizing training aspects within the specialty. Sixty-seven percent of these respondents are instructors. Tasks uniquely performed by group members include:

> conduct resident course classroom training write test questions prepare lesson plans demonstrate how to locate technical information administer or score tests counsel trainees on training progress develop training aids

Group incumbents are highly motivated (see Table 4) and most (67 percent) intend to reenlist.

Summary

Analysis of the job structure for AFSC 326X5A, 326X5B, and 32675 incumbents supports a clear break between the AFS groups with respect to the jobs they perform. Three clusters and one independent job type were identified in the job structure analysis. Each cluster is characterized by a DAFSC; AFS 326X5A, 326X5B, or 32675. Only the Training Personnel independent job type group consisted of personnel in all skill levels. The A-shred (F/FB-111) cluster consisted of seven job types, while the B-shred (F-15) cluster consisted of only two job types. Firstline supervisory personnel in F-15 units tend to group in the technically oriented shop maintenance cluster, while F/FB-111 supervisors perform tasks more closely related to the management cluster. Personnel with a 7-skill level in both shift supervisor job types (firstline supervision) perform technical tasks. The task differences and the nature of F/FB-111 job groups versus the F-15 job groups also indicate the two specialties are performing different functions. The management cluster, dominated by senior level personnel, concentrate on managerial and supervisory functions. Only general test station, LRU, or forms maintenance were commonly performed by more than one job group. Four items of test equipment are commonly utilized; (AN/URM-95A, IFF Mode IV Computer Test Equipment, ILS Test Sets, and AN/UPM-137). The same diverse characteristic of the 326X5A cluster holds true for the test equipment they utilize.

BACKGROUND INFORMATION FOR MAJOR JOB STRUCTURE GROUPS

	F/FB-111 MANUAL TEST STATION SHOP	F-15 MANUAL TEST STATION SHOP	MANAGEMENT PERSONNEL	TRAINING PERSONNEL
NUMBER IN GROUP:	108	122	34	18
PERCENT OF SAMPLE: PERCENT LOCATED OVERSEAS:	35% 40%	39% 45%	11% 47%	6% 6%
DAFSC DISTRIBUTION:	······································	· · · · · · · · · · · · · · · · · · ·		
32635A	7%	-	-	17%
32655A	78%	-	3%	33%
32635B	-	9%	-	6%
32655B	-	79%	3%	22%
32675	15%	12%	94%	22%
AVERAGE GRADE:	E-4	E-4	E-6	E-4
AVERAGE TIME IN SERVICE:	63 MOS	60 MOS	198 MOS	75 MOS
PERCENT SUPERVISING:	29%	40%	94%	28%
PERCENT IN FIRST ENLISTMENT:	57%	56 %	3%	50%
AVERAGE NUMBER TASKS PERFORMED:	196	142	92	21
FINDS JOB INTERESTING: FEELS TALENTS UTILIZED FAIRLY	68%	56%	65%	78%
WELL OR BETTER: FEELS TRAINING UTILIZED FAIRLY	82%	61%	71%	89%
WELL OR BETTER: SATISFIED WITH SENSE OF	88%	63%	68 %	94%
ACCOMPLISHMENT:	61%	48%	53%	78%
PLANS TO REENLIST:	36%	40%	50%	67%

11.1

ANALYSIS OF DAFSC GROUPS

In conjunction with identifying the job structure of the 326X5 specialties, it is important to examine differences among survey respondents with respect to each shred and their skill level progression. The shred analysis allows for the identification of similarities and differences among specialties and the skill levels within the specialty. This information is also used to evaluate how well career ladder documents, such as AFR 39-1 specialty descriptions and the Specialty Training Standards (STS), reflect the tasks and jobs which specialty incumbents perform in the field.

The DAFSC analysis of the 326X5 specialty will discuss the duties and tasks common to the skill level groups as well as the tasks which best differentiate 3-, 5-, and 7-skill level respondents. Shreds are designated at the 3- and 5-skill level for the F/FB-111 and F-15 aircraft systems respectively. Both shreds combine at the 7-skill level. The AFS 32699 and CEM Code 32900 are fed from seven separate 326XX specialties, and were not surveyed in this sample.

DAFSC 32635A and 32655A

Three-skill and 5-skill level personnel are found in each job type in the F/FB-111 Manual Test Station Shop personnel cluster. The specific responsibilities of personnel in each skill level differ. Three-skill level respondents perform very general LRU or test station maintenance. Many of these tasks are listed on Table 5, as those tasks common to both A and B shred personnel. The 5-skill level takes on substantially more responsibility, performing an average of 172 tasks, 75 more than the 3-skill level. Equipment specific tasks along with the general test station maintenance functions are characteristic of the 5-skill level.

DAFSC 32635B and 32655B

Unlike the A shred, the 3- and 5-skill level B-shred respondents indicate performing almost the same functions. The 5-skill level incumbents perform an average of 132 tasks, only 30 more than the 3-skill level. While both skill level group respondents perform general maintenance and equipment specific maintenance, the 5-skill level takes on some supervisory responsibility and performs more forms management functions.

DAFSC 32675

A definite shift in responsibilities occurs at the 7-skill level. Not only do both shreds merge at the 7-skill level, but the overall job function becomes supervisory and managerial. Tasks differentiating technicians from 3- and 5-skill level respondents focus on managerial functions involving evaluating, directing, organizing, planning or implementing functions (see Table 6). Unusual at the 7-skill level is the fact that the average number of tasks performed (120) is less than the average performed by 5-skill levels. This finding is possibly due to the combining of personnel at the 7-skill level

EXAMPLES OF TASKS MOST COMMONLY PERFORMED BY DAFSC 326X5A AND 326X5B PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS		AFS 326X5A	AFS 326X5B
H197	INSTALL CAPS, PLUGS, OR DUST COVERS ON TEST STATIONS,		
	TEST EQUIPMENT OR LRU's	89	92
H226	•	83	87
H225	VISUALLY INSPECT AND CLEAN LRUs	83	87
H199		86	75
F1 60		79	84
H208	PERFORM PERIODIC INSPECTIONS OF TEST STATIONS	81	86
H223	REMOVE OR REPLACE TEST STATION LIGHT BULBS, FUSES, OR		
	MINOR HARDWARE	81	79
E124	ANNOTATE MAINTENANCE DATA COLLECTION RECORD FORMS		
	(AFTO FORM 349)	67	71
H194		83	85
H207		79	74
F167	RESEARCH MICROFICHE FOR PART INFORMATION	78	85
F166	RESEARCH MANUALS FOR PART NUMBERS	74	81
H212	PRESSURIZE LRUS	84	77
E136	ANNOTATE SIGNIFICANT HISTORICAL DATA FORMS		
	(AFTO FORM 95)	67	65
H204	PERFORM CONFIDENCE CHECKS OF TEST STATIONS	82	89
E122	ANNOTATE ISSUE/TURN IN REQUEST FORMS (AFTO FORM 2005)	61	63
E132	ANNOTATE REPARABLE ITEM PROCESSING TAG FORMS		
	(AFTO FORM 350)	66	70
E135	ANNOTATE SERVICEABLE TAG-MATERIAL FORMS (DD FORM 1574)	60	62
E139	ANNOTATE TECHNICAL ORDER SYSTEM PUBLICATION IMPROVEMENT		
	REPORT AND REPLY FORMS (AFTO FORM 22)	51	57
E142	ANNOTATE UNSERVICEABLE (CONDEMNED) TAG MATERIAL FORMS		
	(DD FORM 1577)	53	64
E143	ANNOTATE UNSERVICEABLE (REPARABLE) TAG MATERIAL FORMS		
	(DD FORM 1577-2)	52	59
G183	PACK OR UNPACK LRUS OR SRUS FOR SHIPMENT	55	73
	INSPECT EQUIPMENT FOR CORRECT CALIBRATION DATES	78	62
H205	PERFORM CORROSION CONTROL OF TEST STATIONS, TEST		
	EQUIPMENT OR LRUS	67	73
H206	•		
	FROM SUPPLY	75	72
H213	REMOVE OR REPLACE TEST REPLACEABLE UNITS (TRUs)	66	70
H222	REMOVE OR REPLACE TEST STATION CALDE ASSEMBLY PINS OR		• -
	HARDWARE	73	72
		· -	

TASKS WHICH BEST DISTINGUISH DAFSC 32655A, 32655B, AND 32675 PERSONNEL (PERCENT MEMBERS PERFORMING)

			AFS	
		32655A	32655B	32675
TASKS		<u>(N=96)</u>	<u>(N=103)</u>	<u>(N=79)</u>
H194	CLEAN TEST STATION BLOWER FILTERS	88	87	35
H212	PRESSURIZE LRUs	88	82	38
H204	PERFORM CONFIDENCE CHECKS OF TEST STATIONS	84	90	42
H197	INSTALL CAPS, PLUGS, OR DUST COVERS ON TEST STATIONS,			
	TEST EQUIPMENT, OR LRUS	92	92	48
H223	REMOVE OR REPLACE TEST STATION LIGHT BULBS, FUSES, OR			
	MINOR HARDWARE	83	85	44
H205	PERFORM CORROSION CONTROL OF TEST STATIONS, TEST			
	EQUIPMENT, OR LRUS	69	78	33
H222	REMOVE OR REPLACE TEST STATION CABLE ASSEMBLY PINS OR			
	HARDWARE	78	79	38
	PERFORM PERIODIC INSPECTIONS OF TEST EQUIPMENT	82	75	38
	VISUALLY INSPECT AND CLEAN TEST STATIONS	86	89	48
	INVENTORY TEST STATIONS OR ROLLAWAYS	89	80	46
H225		85	88	49
H206	PERFORM FUNCTIONAL CHECKS OR TEST AND INSPECT (T&I) OF LRUS ISSUED FROM SUPPLY	77	75	38
	* * * * * * * * *	* *	*	*
C57	ENDORSE AIRMAN PERFORMANCE REPORTS (APRs)	7	10	62
C80	PREPARE APRS	23	25	76
C60	EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS	11	8	59
C86	REVIEW TECHNICAL ORDER IMPROVEMENT REPORTS	11	9	57
B45	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR			
	SUBORDINATES	11	17	61
C83	REVIEW CORRESPONDENCE	2	8	51
C85	REVIEW MAINTENANCE DATA COLLECTION RECORD FORMS			
	(AFTO FORM 349) FOR ACCURACY	23	28	71
B52	SUPERVISE INTEGRATED AVIONICS MANUAL TEST STATION			
	AND COMPONENT TECHNICIANS (AFS 32675)	1	4	46
C64	EVALUATE INDIVIDUALS FOR RECOGNITION	10	10	54
A17	PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS,			
	BRIEFINGS, CONFERENCES, OR WORKSHOPS	8	19	57
B31	COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED MATTERS	19	23	63
B54	WRITE CORRESPONDENCE	13	14	54

from two shreds. A 7-skill level could be assigned to an F/FB-111 or F-15 manual test station shop. Technicians appear in each of the clusters and independent job types discussed in the JOB STRUCTURE ANALYSIS, with most concentrating in the Management Cluster. In line with this, 7-skill levels work with all of the F-15 or F/FB-111 aircraft models, and utilize various Avionics AGE test equipment (see Table 7). This type of AFSC progression forces a progression from a technical job at the 3- and 5-skill level shred to a supervisory 7-skill level. The performance of technical tasks and in particular OJT, support a shred designation at the 7-skill level.

AFS 326X5A and 326X5B Comparisons

An overall comparison of the 326X5A and 326X5B shreds indicate both similarities and differences between the two shreds. F/FB-111 (A Shred) incumbents progress from very general tasks at the 3-skill level to technical equipment specific tasks at the 5-skill level. F-15 (B Shred) respondents, however, perform nearly the same functions at both the 3- and 5-skill level. The job groups formed by incumbents in each shred also show different trends. Eight job types are formed by AFS 326X5B respondents.

A common core of tasks is performed by members of both shreds. Generally, these tasks relate to general maintenance of LRUs or test stations, and supply functions. Table 5 lists the tasks performed by 50 percent or more of the respondents from both shreds. These common tasks are rated low in difficulty and low in training emphasis by personnel in F-15 and F/FB-111 units. On the other hand, tasks which best differentiate the shreds are more specific in nature and rated more difficult to learn and higher in training emphasis. Tasks which best illustrate the difference between specialties are shown on Table 8. As expected, A-shred respondents concentrate on F/FB-111 tasks and B-shred respondents concentrate on F-15 tasks.

BACKGROUND INFORMATION DISTINGUISHING AFS 326X5A, 326X5B, AND 32675 RESPONDENTS (PERCENT MEMBERS RESPONDING)

AIRCRAFT WORKED WITH:	AFS 326X5A	AFS <u>326X5B</u>	AFS <u>32675</u>
F-15A	2	81	38
F-15B	2	77	32
F-15C	2	59	32
F-15D	2	52	30
F-111A	17	-	10
F-111D	17	-	11
F-111E	14	-	10
F-111F	19	-	20
FB-111A	31	•	15

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AVIONICS AGE TEST EQUIPMENT UTILIZED:

AIR-TO-AIR INTERROGATOR TEST EQUIPMENT GROUPS			
(AN/APX-76 HOT MOCK-UPS)	22	16	11
CENTRAL AIR DATA COMPUTERS (12A1803A1)	92	-	37
COMMUNICATIONS AND NAVIGATIONAL AIDS TEST			
STATION (12A16850)	84	4	34
ELECTRICAL TEST STATIONS (12A3409)	60	-	28
ELECTRICAL TEST STATIONS (12A3439)	28	-	15
IDENTIFICATION-FRIEND-OR-FOE (IFF) TEST			
EQUIPMENT GROUPS (AN/APX-64)	81	9	34
MISSION & TRAFFIC CONTROL TEST STATIONS (12A16849)	57	-	27
MISSION & TRAFFIC CONTROL TEST STATIONS (12A16879)	36	-	13
SATELLITE COMMUNICATIONS TEST STATIONS	21	-	6
SIGNAL/DATA CONVERTER TEST STATIONS	31	-	17
TACAN TEST EQUIPMENT GROUPS (AN/ARN-84)	39	10	24
TACAN TEST EQUIPMENT GROUPS (AN/ARN-118)	45	8	18
UHF TEST EQUIPMENT GROUPS (AN/ARC-164)	82	12	
EMERGENCY RADIO TEST EQUIPMENT GROUPS (AN/URM-95A)	52		
IFF MODE IV COMPUTER TEST EQUIPMENT GROUPS (KIR/KIT)	74	48	
ILS TEST SETS	64		67
RADAR TEST SETS AN/UPM-137	61	86	71
ANTENNA A OR B TEST STATIONS (AN/GSM-228)	-	95	41
COMMUNICATIONS, NAVIGATION, & IDENTIFICATION TEST			
STATIONS (AN/GSM-230)	4	95	43
INDICATORS AND CONTROLS TEST STATIONS (AN/GMS-229)	2	94	42

EXAMPLES OF TASKS WHICH BEST DISTINGUISH DAFSC 326X5A AND 326X5B PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS		AFS 326X5A (N=109)	AFS 326X5B (N=118)	DIFFERENCE
M390	BENCHCHECK F/FB-111 CENTRAL AIR DATA COMPUTERS	80	0	+80
P538	BENCHCHECK F/FB-111 ANTICOLLISION LIGHTS	78	0	+78
P557	ISOLATE MALFUNCTIONS IN F/FB-111 ANTICOLLISION LIGHTS	77	0	+77
K 272	BENCHCHECK F/FB-111 ARC-164 UHF RECEIVER TRANSMITTERS	76	0	+76
M393	BENCHCHECK F/FB-111 MAXIMUM SAFE MACH ASSEMBLIES	75	0	+75
P527	ALIGN F/FB-111 ANTICOLLISION LIGHTS	75	0	+75
K271	BENCHCHECK F/FB-111 ARC-164 RADIO SET CONTROLS	73	0	+73
M404	ISOLATE MALFUNCTIONS IN F/FB-111 MAXIMUM SAFE MACH			
	ASSEMBLIES TO SRU OR CHASSIS	73	0	+73
L311	BENCHCHECK F/FB-111 HF ANTENNA COUPLERS	70	0	+70
M399	ISOLATE MALFUNCTIONS IN F/FB-111 CENTRAL AIR DATA			
	COMPUTERS TO SRU OR CHASSIS	70	0	+70
M422	REMOVE OR REPLACE F/FB-11! CENTRAL AIR DATA COMPUTER			
	SRUs	70	0	+70
M426	REMOVE OR REPLACE F/FB-111 MAXIMUM SAFE MACH ASSEMBLY SRUs	70	0	+70
	5805	/0	0	•70
	* * * * * * * * *	*	k *	r *
R649	BENCHCHECK F-15 RADAR SYSTEM TRANSMITTERS	0	91	-91
R647	BENCHCHECK F-15 RADAR SYSTEM ANTENNAS	0	91	-91
T712	BENCHCHECK F-15 FUEL QUANTITY INDICATORS	0	90	-90
S679	BENCHCHECK F-15 ILS TEST SETS	0	90	-90
R648	BENCHCHECK F-15 RADAR SYSTEM LOW VOLTAGE POWER SUPPLIES	0	90	-90
T721	BENCHCHECK F-15 MAIN COMMUNICATIONS CONTROL PANELS	0	89	-89
T715	BENCHCHECK F-15 INTEGRATED COMMUNICATIONS CONTROL PANELS	0	89	-89
R653	ISOLATE MALFUNCTIONS IN F-15 RADAR SYSTEM TRANSMITTERS	0	89	-89
R651	ISOLATE MALFUNCTIONS IN F-15 RADAR SYSTEM ANTENNAS	0	89	-89
T746	ISOLATE MALFUNCTIONS IN F-15 INTEGRATED COMMUNICATIONS			
	CONTROL PANELS	0	88	-88
T705		0	88	-88
R652	ISOLATE MALFUNCTIONS IN F-15 RADAR SYSTEM LOW VOLTAGE POWER SUPPLIES	0	88	-86
		•		

COMPARISON OF SURVEY DATA TO AFR 39-1 SPECIALTY DESCRIPTIONS

In order to insure accuracy and possibly update the 326X5 AFR 39-1 Specialty Descriptions, occupational survey data were compared against the April 1979 descriptions for DAFSCs 32635/55 and 32675. These descriptions are intended to give a broad overview of the duties and tasks required to be performed by various skill level personnel.

The various actions performed by AFS 32635/55 personnel mentioned in the Specialty Description are accurate representations of the types of tasks most respondents indicated performing. Several tasks relating to the annotating of forms and supply activities are performed by specialty respondents, but not mentioned in the Specialty Description. Specifically, these include annotating MDC record forms - AFTO Form 349 (70 percent), reparable item processing tag forms - AFTO Form 350 (69 percent), significant historical data forms - AFTO Form 95 (67 percent), issue/turn in request forms - AF Form 2005 (62 percent), and serviceable tag-materiel forms - DD Form 1574 (61 percent). Supply activities involve researching microfiche for part information (81 percent), ordering parts by telephone (81 percent), and researching manuals for part numbers (77 percent).

Description items in paragraph f, "Supervises integrated avionics manual test station and component specialists," are typically performed by 35 to 55 percent of the respondents. For example, conducting OJT is performed by 32 percent of 5-skill level and 56 percent of the 7-skill level incumbents. These task statements are more descriptive of the 7-skill level incumbent. While 7-skill levels do perform technical tasks, a majority of their time (59 percent) is spent on supervisory, managerial, administrative, supply, and forms duties. The specialty description AFS 32675 emphasizes the technical aspects of the specialty. If the specialty shredouts (A&B) are extended to the 7-skill level, then the present emphasis in the 7-skill level specialty description on technical areas may eventually prove to be accurate. If the shredouts are not approved, it may be more appropriate to put greater emphasis on the supervisory and managerial aspects in the 7-skill level description.

ANALYSIS OF MAJOR COMMAND DIFFERENCES

Another dimension along which the jobs performed by individuals are described is major command (MAJCOM). The job structure analysis revealed several jobs dominated by personnel in specific commands. As a result, a discussion of the tasks and duties performed by incumbents according to MAJCOM illustrates the jobs performed from the perspective of MAJCOM differences. Five major commands, comprising 89 percent of the sample, were examined. These major commands are: (1) Air Training Command (ATC); (2) Strategic Air Command (SAC); (3) Tactical Air Command (TAC); (4) United States Air Force Europe (USAFE); and (5) Pacific Air Forces (PACAF). Seven-skill level personnel are found in each of these commands. However, AFS 326X5A personnel are in ATC, SAC, TAC, and USAFE, while AFS 326X5B personnel are in ATC, TAC, USAFE and PACAF. Personnel in ATC are responsible for the training of AFS 326X5 personnel, and to not serve in an operational capacity. The discussions below will concentrate on the operational commands.

AFS 326X5A

Job type groups within the F/FB-111 Manual Test Station Shop personnel are dominated by MAJCOM. USAFE respondents are in the ARC-123 Mission and Traffic Control Maintenance job type; SAC respondents in the TACAN, SATCOM, or CADC Maintenance job types; and TAC respondents in the AAI or ARC-112 Mission and Traffic Control Maintenance job types. Distinguishing tasks among MAJCOMs (presented in Table 9), validate these job type groupings. Several background differences also appear between MAJCOMs, including the number of test sets utilized, aircraft worked with and Avionics AGE utilized. As may be seen on Table 10, TAC and USAFE are most alike in the Avionics AGE utilized. Even with the pronounced differences between MAJCOMs, no substantive differences could be found in job satisfaction responses (see Table 11). Overall, the differences between MAJCOM or job type groups revolve around the model(s) of aircraft maintained.

AFS 326X5B

As illustrated on Table 12, only minor task differences appear between the operational commands utilizing B-shred respondents. The homogeneous nature of AFS 326X5B personnel displayed in the JOB STRUCTURE ANALYSIS section holds true between MAJCOMs.

The B-shred personnel in PACAF have higher job satisfaction responses than other MAJCOM respondents. Otherwise, all MAJCOM respondents generally share the same background characteristics (i.e., average number of tasks performed, average time in service, average grade, or test equipment utilized). An exception to this are PACAF respondents who do not utilize the Emergency Radio Test Equipment group (AN/URM-95A).

26

TASKS BEST DISTINGUISHING AFS 326X5A MAJCOM GROUPS (PERCENT MEMBERS PERFORMING)

			MAJC	OM
TASK		SAC	TAC	USAFE
	PREPARE MATERIAL DEFICIENCY REPORTS	49	34	69
	PREPARE QUALITY DEFICIENCY REPORTS	51	25	34
G186	PREPARE AND PACK AVIONICS AND SUPPORT EQUIPMENT			
	FOR MOBILITY OPERATIONS	0	69	3
	ALIGN EMERGENCY RADIOS	8	69	47
L356	REMOVE OR REPLACE F/FB-111 ARC-112 HF RECEIVER			
	TRANSMITTER BITS AND PIECES	0	34	3
L317	ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF			
	AMPLIFIER POWER SUPPLIES TO SRU OR CHASSIS	5	44	3
M395	BENCHCHECK F/FB-111 SUBSYSTEM TIE-IN TEST SETS	8	56	31
M433				
	ANGLE POSITION INDICATOR BITS AND PIECES	22	50	38
0506				
	TRANSMITTERS	3	75	38
0625	REMOVE OR REPLACE FB-111 ARC-171 RECEIVER TRANS-	5		
4020	MITTER SRU's	30	0	0
0602	ISOLATE MALFUNCTIONS IN FB-111 ARC-171 RECEIVER	50	U	v
4002	TRANSMITTERS TO SRU OR CHASSIS	30	3	0
0500	BEHCNCHECK FB-111 ARC-171 RECEIVER TRANSMITTERS	32	3	Ő
	REMOVE OR REPLACE F/FB-111 MODE IV COMPUTER SRU's	51	25	38
		51	25	00
J204	REMOVE OR REPLACE F/FB-111 ARC-109 UHF RECEIVER TRANSMITTER SRU'S	70	1.	05
1050		73	41	25
J250	ISOLATE MALFUNCTIONS IN F/FB-111 ARC-109 UHF RADIO			
	SET CONTROL LRU'S TO BIT AND PIECE	70	41	28
J242	BENCHCHECK F/FB-111 ARC-109 UHF RADIO SET CONTROL	. .		
	LRU's	81	41	41
I234	REMOVE OR REPLACE F/FB-111 SIMULATOR OR MOCKUP			
	CABLE ASSEMBLY PINS OR HARDWARE	38	28	59
K 277	ISOLATE MALFUNCTIONS IN F/FB-111 ARC-164 UHF RADIO			
	SET CONTROLS TO BIT AND PIECE	32	31	59
L291		51	44	88
L328	ISOLATE MALFUNCTIONS IN F/FB-111 ARC-123 HF MOUNTS			
	TO BIT AND PIECE	49	34	81
L359	REMOVE OR REPLACE F/FB-111 ARC-123 HF AMPLIFIER			
	POWER SUPPLY BITS AND PIECES	43	44	69
M405	ISOLATE MALFUNCTIONS IN F/FB-111 MAXIMUM SAFE MACH			
	ASSEMBLIES TO BIT AND PIECE	43	59	84
M394	BENCHCHECK F/FB-111 STANDBY ALTIMETERS	46	44	69
	•			

EQUIPMENT DIFFERENCES BETWEEN MAJCOMS UTILIZING AFS 326X5A PERSONNEL (PERCENT MEMBERS RESPONDING)

	MAJCO		OM	
	SAC	TAC	USAFE	
AIRCRAFT WORKED WITH:				
E-111A	5	44	9	
F-111A F-111D	5 5	44 50	9 -	
F-111E	-	16	31	
F-111F	5	3	56	
FB-111A	81	3	6	
	01	3	Ŭ	
NUMBER OF SETS OF TEST STATIONS IN SHOP:				
NONE	16	3	-	
ONE	73	3	-	
TWO	-	3	6	
THREE	-	34	75	
FOUR	8	56	22	
AVIONICS AGE TEST EQUIPMENT UTILIZED:				
AIR-TO-AIR INTERROGATOR TEST EQUIPMENT GROUP				
(AN/APX-76 HOT MOCK-UP)	-	53	3	
CENTRAL AIR DATA COMPUTERS (12A1803A1)	78	97	100	
COMMUNICATIONS, AND NAVIGATIONAL AIDS TEST STATION	70	21	100	
(12A16850)	76	88	88	
ELECTRICAL TEST STATIONS (12A3409)	8	94	100	
ELECTRICAL TEST STATIONS (12A3439)	81	3	-	
EMERGENCY RADIO TEST EQUIPMENT GROUP (AN/URM-95A)	3	88	88	
IDENTIFICATION-FRIEND-OR-FOE (IFF) MODE IV COMPUTER	5	00	00	
TEST EQUIPMENT GROUPS (KIR/KIT)	78	72	91	
IDENTIFICATION-FRIEND-OR-FOE (IFF) TEST EQUIPMENT			<i>.</i>	
GROUPS (AN/APX-64 HOT MOCKUPS)	70	88	88	
INSTRUMENT LANDING SYSTEM TEST SETS	62	78	69	
MISSION & TRAFFIC CONTROL TEST STATIONS (12A16849)	3	94	97	
MISSION & TRAFFIC CONTROL TEST STATIONS (12A16879)	78	6	-	
RADAR TEST SETS AN/UPM-137	57	59	69	
SATELLITE COMMUNICATIONS TEST STATIONS	62	-	-	
SIGNAL DATA CONVERTER TEST STATIONS	27	38	38	
TACAN TEST EQUIPMENT GROUPS (AN/ARN-81)	51	16	56	
TACAN TEST EQUIPMENT GROUPS (AN/ARN-118)	5	78	44	
UHF TEST EQUIPMENT GROUPS (AN/ARC-164)	78	84	94	

3

JOB SATISFACTION INFORMATION ACCORDING TO MAJOR COMMAND (PERCENT MEMBERS RESPONDING)

	FINDS JOB INTERESTING	FEELS TALENTS UTILIZED FAIRLY WELL OR BETTER	FEELS TRAINING UTILIZED FAIRLY WELL OR BETTER	SATISFIED SENSE OF ACCOMPLISHMENT	PLANS TO REENLIST
AFS 32675					
ATC	67	67	67	67	83
TAC	54	67	62	54	42
SAC	86	86	71	57	72
PACAF	57	100	100	60	80
USAFE	80	65	62	49	57
<u>AFS 326X5A</u>					
ATC	75	87	87	75	38
TAC	69	78	87	56	34
SAC	68	81	81	75	35
USAFE	59	81	87	63	34
AFS 326X5B					
ATC	90	80	90	80	50
TAC	55	55	57	42	31
USAFE	50	65	65	54	38
PACAF	77	71	82	65	59

TASKS BEST DISTINGUISHING AFS 326X5B MAJCOM GROUPS (PERCENT MEMBERS PERFORMING)

			MAJCOM	
TASKS	······································	TAC	USAFE	PACAF
H190	ALIGN EMERGENCY RADIOS	42	69	18
H218	REMOVE OR REPLACE F-15 TRU SRU'S	48	38	65
S660	ALIGN F-15 ARC-109 UHF RADIO RECEIVERS	77	69	35
S671	BENCHCHECK F-15 ARC-109 UHF RADIO-RECEIVER			
	TRANSMITTERS	83	73	35
S6 73	BENCHCHECK F-15 ARN-118 DIGITAL-TO-DIGITAL ADAPTER			
	CONVERTERS	37	54	71
S675	BENCHCHECK F-15 ARN-84 TACAN RADIO-RECEIVER			
	TRANSMITTERS	54	50	35
S676	BENCHCHECK F-15 ADF ANTENNAS	62	65	47
S684	ISOLATE MALFUNCTIONS IN F-15 ARC-109 UHF RADIO-			
	RECEIVER TRANSMITTERS	83	77	35
S66 3	ALIGN F-15 ARN-118 TACAN RADIO-RECEIVER TRANSMITTERS	42	81	94
S672	BENCHCHECK F-15 ARC-164 UHF RADIO-RECEIVER			
	TRANSMITTERS	55	92	76
S686	ISOLATE MALFUNCTIONS IN F-15 ARC-118 TACAN			
	RADIO-RECEIVER TRANSMITTERS	48	81	88
T731	BENCHCHECK F-15 PRESSURE TRANSMITTERS	58	46	82
T734	BENCHCHECK F-15 SIGNAL CONDITIONERS	38	46	88

30

AFS 32675

For the most part, 7-skill level personnel in all commands concentrate their time on supervisory, forms, records, administrative or supply functions. Incumbents in SAC and PACAF also performed equipment specific tasks. SAC respondents perform A-shred (F/FB-111) related tasks, especially in the maintenance of simulators or mockups, ARC-109 UHF radios, ARC-123 HF radios, 121803A1 test stations, and anticollision lights (see Table 13). In addition, these incumbents have more average time in the career field and time in their job. PACAF incumbents perform B-shred (F-15) related tasks. The homogeneous nature of B-shred jobs is also true for the 7-skill level PACAF respondents. SAC and PACAF 7-skill levels also have higher job satisfaction responses than other MAJCOM respondents (see Table 11). TAC respondents, as seen on Table 10 indicate using the most (from two to four) sets of test stations. USAFE respondents use two to three sets, PACAF uses two sets and SAC uses only one set of test stations.

In summary, the AFS 326X5A respondents show the most diversity in job function based on major command, and AFS 326X5B respondents maintain their homogeneous nature.

				JCOM	
TASK		TAC	USAFE	SAC	PACAF
B47	SUPERVISE APPRENTICE INTEGRATED AVIONICS MANUAL TEST				
-	STATION AND COMPONENT SPECIALISTS (F/FB-111) (AFSC 32635A)	38	27	71	20
B50	SUPERVISE INTEGRATED AVIONICS MANUAL TEST STATION				
	COMPONENT SPECIALISTS (F/FB-111) (AFSC 32655A)	38	32	71	0
B48	SUPERVISE APPRENTICE INTEGRATED AVIONICS MANUAL TEST				
	STATION AND COMPONENT SPECIALISTS (F-15) (AFSC 32635B)	38	24	0	80
B51	SUPERVISE INTEGRATED AVIONICS MANUAL TEST STATION AND				
	COMPONENT SPECIALISTS (F-15) (AFSC 32655B)	42	38	0	80
G174		8	32	0	80
H212		21	46	86	40
H216	· · · · · · · · · · · · · · · · · · ·	•	10	•	()
11017	SUCH AS FUSES, CIRCUIT BREAKERS, OR TRANSFORMERS REMOVE OR REPLACE F-15 LRU SRU'S EXCEPT RADAR SYSTEM	8	19	0	60
H217	SRU'S	8	14	0	60
I231	PERFORM PERIODIC INSPECTIONS OF F/FB-111 SIMULATORS OR	0	16	U	60
1231	MOCKUPS	4	11	71	0
1236	REMOVE OR REPLACE F/FB-111 SIMULATOR OR MOCKUP CABLE	4	11	/1	U
1234	ASSEMBLY PINS OR HARDWARE	4	14	71	0
J242		8	5	71	0
J243		8	5	71	0
J264		U	5	,,	U
	TRANSMITTER SRU'S	8	5	71	0
K269		8	27	71	õ
L307	•	4	24	57	ō
L327	ISOLATE MALFUNCTIONS IN F/FB-111 ARC-123 HF MOUNTS TO BIT				•
	AND PIECE	4	22	57	0
L358	REMOVE OR REPLACE F/FB-111 ARC-123 HF AMPLIFIER POWER			•••	-
	SUPPLY SRU's	4	27	57	0
M390	BENCHCHECK F/FB-111 CENTRAL AIR DATA COMPUTERS	13	22	57	0
R645	•	17	19	0	60
R656	SERVICE F-15 AN/GSM-228 TEST STATION FLUSH AND FILL UNITS	21	19	0	60
S6 73	BENCHCHECK F-15 ARN-118 DIGITAL-TO-DIGITAL ADAPTER				
	CONVERTERS	8	11	0	60
S676	BENCHCHECK F-15 AUTOMATIC DIRECTION FINDING (ADF)				
	ANTENNAS	13	11	0	60
S686	ISOLATE MALFUNCTIONS IN F-15 ARC-118 TACAN RADIO-RECEIVER				
_	TRANSMITTERS	13	16	0	60
T693		17	14	0	60
T75 1	ISOLATE MALFUNCTIONS IN F-15 TAKE COMMAND CONTROL PANELS	17	19	0	60

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TASKS BEST DISTINGUISHING AFS 32675 MAJOR COMMAND GROUPS (PERCENT MEMBERS RESPONDING)

32

ANALYSIS OF CONUS VERSUS OVERSEAS GROUPS

A comparison of the tasks performed and background data for DAFSC 32655A and 32655B respondents assigned within the CONUS versus those assigned to overseas locations reveals that several differences are apparent between A shred respondents, while only minor differences appear between the B shred respondents. As indicated by the job structure and DAFSC analyses, the 32655A and 32655B specialties clearly perform different functions. Therefore, the discussion below, will concentrate on each specialty and its CONUS and overseas differences separately.

AFS 32655A

Several background and task differences point out distinguishing characteristics of CONUS and overseas personnel. Overseas personnel are only located in USAFE. As in the MAJCOM group analysis, many of the differences are driven by the aircraft model respondents are associated with. For instance, the F-111D and FB-111A tend to be CONUS, while the F-111E and F-111F tend to be overseas. Only the F-111A is maintained by CONUS and overseas personnel (see Table 14). This finding is in line with the aircraft differences found in the job types found in the JOB STRUCTURE ANALYSIS section. CONUS respondents also tend to maintain the ARC-109 UHF, or ARC-112 HF LRUS, while overseas respondents maintain the ILS Glide Slope Marker Beacon and Localizer Receivers, or ARC-123 HF, LRUS (see Table 15). Additionally, several different pieces of test equipment are utilized (see Table 16), especially Electrical Test Stations, and TACAN Test Equipment groups.

Overseas respondents perform an average of 41 more tasks than the CONUS based respondents. As with many other specialties, AFS 32655A overseas personnel have slightly higher average time in the career field (TICF) than CONUS respondents, who average 16 months less time in the career field. In terms of the location of first-term personnel, 78 percent of the CONUS respondents and only 32 percent of the overseas respondents have 1-48 months time in service.

AFS 32655B

Unlike the A-shred personnel, 32655B specialty respondents are not distinguished by the model of aircraft although the F-15C and F-15D are located more overseas (see Table 14). Overseas personnel utilize the ARN-118 TACAN and ARC-164 UHF Test Equipment Groups to maintain LRUs, more than CONUS based personnel. However, most of the tasks in Table 17 suggest there are only minor differences between personnel located in the CONUS and overseas. Respondents perform approximately the same average number of tasks. Overseas personnel had only seven months more average time in the career field. Duty location (overseas versus CONUS) did not appear to be a distinguishing characteristic for any of the AFS 326X5B job structure groups. Overseas respondents perceived their talents and training as utilized better than CONUS respondents, and were more satisfied with the sense of accomplishment gained from their work.

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AIRCRAFT DIFFERENCES BETWEEN CONUS AND OVERSEAS RESPONDENTS (PERCENT MEMBERS RESPONDING)

AIRCRAFT	CONUS	OVERSEAS
AFS 326X5A		
F-111A	24	11
FB-111A	41	4
F-111D	27	0
F-111E	6	25
F-111F	4	64
AFS 326X5B		
F-15A	87	77
F-15B	83	72
F-15C	40	88
F-15D	38	79 ⁻

TASKS WHICH BEST DISTINGUISH DAFSC 32655A CONUS AND OVERSEAS RESPONDENTS (PERCENT MEMBERS PERFORMING)

TASKS		CONUS (N=68)	OVERSEAS (N=28)	DIFFERENCE
J262	REMOVE OR REPLACE F/FB-111 ARC-109 UHF RADIO SET			
	CONTROL LRU BITS AND PIECES	59	21	+38
J263				
	TRANSHITTER BITS AND PIECES	57	21	+36
J264				
	TRANSMITTER SRUS	57	21	+36
J252	ISOLATE MALFUNCTIONS IN F/FB-111 ARC-109 UHF RECEIVER		• •	
	TRANSHITTERS TO BITS AND PIECES	53	18	+35
J250	ISOLATE MALFUNCTIONS IN F/FB-111 ARC-109 UHF RADIO SET		~-	
	CONTROL LRUS TO BIT AND PIECE	56	25	+31
G186	PREPARE AND PACK AVIONICS AND SUPPORT EQUIPMENT FOR		,	
	MOBILITY OPERATIONS	32	4	+28
J251	ISOLATE MALFUNCTIONS IN F/FB-111 ARC-109 UHF RECEIVER TRANSMITTERS TO SRU OR CHASSIS	57	20	+28
10/0		57	29	
J242		62	36 36	+26 +26
J243		62	30 32	+20 +25
J238	ALIGN F/FB-111 ARC-109 UHF RECEIVER TRANSMITTERS	57	32	720
	* * * * * * * *	*	* *	
H192	BENCHCHECK EMERGENCY RADIOS	37	79	-42
L292	ALIGN F/FB-111 ARC-123 HF RECEIVER TRANSMITTERS	47	89	-42
L308	BENCHCHECK F/FB-111 ARC-123 HF RECEIVER TRANSMITTERS	53	96	-43
L289	ALIGN F/FB-111 ARC-123 HF AMPLIFIER POWER SUPPLIES	46	89	-43
L328	ISOLATE MALFUNCTIONS IN F/FB-111 ARC-123 HF MOUNTS TO			
	BIT AND PIECE	41	86	-45
L326	ISOLATE MALFUNCTIONS IN F/FB-111 ARC-123 HF AMPLIFIER			
	POWER SUPPLIES TO BIT AND PIECE	40	86	-46
L291		46	93	-47
L290		38	86	-48
L330	ISOLATE MALFUNCTIONS IN F/FB-111 ARC-123 HF RADIO			
	SET CONTROLS TO BIT AND PIECE	41	89	-48
G174	CALIBRATE TORQUE WRENCHES	18	75	-57

AVIONICS AGE TEST STATIONS OR TEST EQUIPMENT GROUPS UTILIZED BY AFS 32655A CONUS AND OVERSEAS PERSONNEL (PERCENT MEMBERS RESPONDING)

AIR-TO-AIR INTERROGATOR TEST EQUIPMENT GROUPS (AN/APX-76 HOT MOCK-UPS)294CENTRAL AIR DATA COMPUTERS (12A1803A1)91100COMMUNICATIONS AND NAVIGATIONAL AIDS TEST STATION (12A16850)8793ELECTRICAL TEST STATIONS (12A3409)44100ELECTRICAL TEST STATIONS (12A3439)430EMERGENCY RADIO TEST EQUIPMENT GROUPS (AN/URM-95A)4086IDENTIFICATION-FRIEND-OR-FOE (IFF) MODE IV COMPUTER TEST100	CONUS OVERSI (N=68) (N=28)	
CENTRAL AIR DATA COMPUTERS (12A1803A1)91100COMMUNICATIONS AND NAVIGATIONAL AIDS TEST STATION100(12A16850)8793ELECTRICAL TEST STATIONS (12A3409)44100ELECTRICAL TEST STATIONS (12A3439)430EMERGENCY RADIO TEST EQUIPMENT GROUPS (AN/URM-95A)4086	RROGATOR TEST EQUIPMENT GROUPS (AN/APX-76	
COMMUNICATIONS AND NAVIGATIONAL AIDS TEST STATION(12A16850)8793ELECTRICAL TEST STATIONS (12A3409)44100ELECTRICAL TEST STATIONS (12A3439)430EMERGENCY RADIO TEST EQUIPMENT GROUPS (AN/URM-95A)40		
(12A16850) 87 93 ELECTRICAL TEST STATIONS (12A3409) 44 100 ELECTRICAL TEST STATIONS (12A3439) 43 0 EMERGENCY RADIO TEST EQUIPMENT GROUPS (AN/URM-95A) 40 86	A COMPUTERS (12A1803A1) 91 100	
ELECTRICAL TEST STATIONS (12A3409)44100ELECTRICAL TEST STATIONS (12A3439)430EMERGENCY RADIO TEST EQUIPMENT GROUPS (AN/URM-95A)4086	AND NAVIGATIONAL AIDS TEST STATION	
ELECTRICAL TEST STATIONS (12A3439)430EMERGENCY RADIO TEST EQUIPMENT GROUPS (AN/URM-95A)4086	87 93	
EMERGENCY RADIO TEST EQUIPMENT GROUPS (AN/URM-95A) 40 86	STATIONS (12A3409) 44 100	
	STATIONS (12A3439) 43 0	
IDENTIFICATION-FRIEND-OR-FOR (IFF) MODE IV COMPUTER TEST	TEST EQUIPMENT GROUPS (AN/URM-95A) 40 86	
	FRIEND-OR-FOE (IFF) MODE IV COMPUTER TEST	
EQUIPMENT GROUPS (KIR/KIT) 74 93	PS (KIR/KIT) 74 93	
IDENTIFICATION-FRIEND-OR-FOE (IFF) TEST EQUIPMENT GROUPS		
AN/APX-64 HOT MOCK-UPS) 79 86		
INSTRUMENT LANDING SYSTEM (ILS) TEST SETS 65 75		
MISSION AND TRAFFIC CONTROL TEST STATIONS (12A16849) 43 96		
MISSION AND TRAFFIC CONTROL TEST STATIONS (12A16879) 52 0	FFIC CONTROL TEST STATIONS (12A16879) 52 0	
RADAR TEST SETS AN/UPM-137 62 79	AN/UPM-137 62 79	
SATELLITE COMMUNICATIONS TEST STATIONS 31 0	NICATIONS TEST STATIONS 31 0	
SIGNAL/DATA CONVERTER TEST STATIONS 31 36	VERTER TEST STATIONS 31 36	
TACTICAL AIR NAVIGATION (TACAN) TEST EQUIPMENT GROUPS	VIGATION (TACAN) TEST EQUIPMENT GROUPS	
(AN/ARN-84 HOT MOCK-UPS) 32 64	MOCK-UPS) 32 64	
TACTICAL AIR NAVIGATION (TACAN) TEST EQUIPMENT GROUPS	VIGATION (TACAN) TEST EQUIPMENT GROUPS	
(AN/ARN-118 HOT MOCK-UPS) 44 39	r Mock-ups) 44 39	
ULTRA HIGH FREQUENCY (UHF) TEST EQUIPMENT GROUPS	UENCY (UHF) TEST EQUIPMENT GROUPS	
(AN/ARC-164 HOT MOCK-UPS) 79 93	r Mock-ups) 79 93	

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TASKS WHICH BEST DISTINGUISH DAFSC 32655B CONUS AND OVERSEAS RESPONDENTS (PERCENT MEMBERS PERFORMING)

TASKS		CONUS (N=60)	OVERSEAS (N=43)	DIFFERENCE
G182	OPERATE GROUND POWERED AEROSPACE GROUND EQUIPMENT			
	(AGE), SUCH AS MD-4 GENERATORS	55	33	+22
S671	BENCHCHECK F-15 ARC-109 UHF RADIO RECEIVER TRANSMITTERS	82	60	+22
G188	SET UP AVIONICS AND SUPPORT EQUIPMENT AT MOBILITY			
	OPERATING AREAS	32	12	+20
G189				
	OPERATION AFTER MOBILITY OPERATIONS	32	12	+20
S684	ISOLATE MALFUNCTIONS IN F-15 ARC-109 UHF RADIO-			
	RECEIVER TRANSMITTERS	82	63	+19
H195				
	MOCKUP, OR LRU CABLES	53	35	+18
G186	PREPARE AND PACK AVIONICS AND SUPPORT EQUIPMENT FOR			
	MOBILITY OPERATIONS	33	16	+17
	INSTALL TEST STATIONS IN WORK AREAS	40	23	+17
	ALIGN F-15 ARC-109 UHF RADIO-RECEIVER TRANSMITTERS	77	60	+17
S660	ALIGN F-15 ARC-109 UHF RADIO RECEIVERS	73	58	+15
	* * * * * * *			
H213	REMOVE OR INSTALL TEST REPLACEABLE UNITS (TRU)	65	86	-21
S 673				
	CONVERTERS	35	58	-23
S68 5	ISOLATE MALFUNCTIONS IN F-15 ARC-164 UHF RADIO			
	SYSTEMS TO SRU OR CHASSIS	57	81	-24
T734	BENCHCHECK F-15 SIGNAL CONDITIONERS	33	60	-27
S6 72	BENCHCHECK F-15 ARC-164 UHF RADIO-RECEIVER			
	TRANSMITTERS	55	84	-29
S662	ALIGN F-15 ARC-164 UHF RADIO-RECEIVER TRANSMITTERS	50	79	-29
S674	BENCHCHECK F-15 ARN-118 TACAN RADIO-RECEIVER			
	TRANSMITTERS	48	84	-36
S686	ISOLATE MALFUNCTIONS IN F-15 ARC-118 TACAN RADIO-			
	RECEIVER TRANSMITTERS	45	81	-36
	ALIGN F-15 ARN-118 TACAN RADIO-RECEIVER TRANSMITTERS	35	86	-51
G174	CALIBRATE TORQUE WRENCHES	15	74	-59

37

2

ANALYSIS OF AIRCRAFT

As seen in the specialty titles, each shred designates a particular aircraft system; A is the F/FB-111 and B is the F-15. Within the F/FB-111 system there are five models of aircraft; F-111A, F-111D, F-111E, F-111F, and FB-111A; and four models within the F-15 system, F-15A, F-15B, F-15C and F-15D. Previously, in the job structure analysis and major command analysis for the F/FB-111 or AFS 326X5A, the type of aircraft model respondents worked with served as a discriminator in the job they perform. This does not hold true for the F-15 or AFS 326X5B respondents, who perform a very homogeneous function. Therefore, the discussion below will concentrate on the 326X5A specialty.

F-111A and F-111E

The A and E models of the F-111 are the most alike in terms of the test stations utilized and tasks performed. Both uniquely utilize signal/data converter test stations. The F-111A personnel are assigned only to Mt. Home AFB (TAC) and responded to having four sets of test stations for personnel to maintain, while F-111E personnel at Upper Heyford, U.K. (USAFE) indicated having three sets of test stations to maintain. Otherwise, personnel working on these two systems have similar characteristics. A few of the tasks distinguishing them from other aircraft systems include:

> transfer data from F/FB-111 flight recorder 30-track tape magazines to 7-track tapes isolate malfunctions in F/FB-111 central air data computers to bit and piece isolate malfunctions in F/FB-111 12A1803A1 test station angle position indicators to SRV or chassis benchcheck F/FB-111 liquid oxygen quantity indicators benchcheck F/FB-111 aircraft chocks align F/FB-111 ARC-109 UHF radio-set control LRU's benchcheck F/FB-111 ARC-109 UHF receiver transmitters

1

The primary distinction between the A and E model is the type of high frequency radio they maintain. F-111A respondents maintain ARC-112 HF equipment, and F-111E respondents maintain ARC-123 HF equipment. Also very similar to these aircraft are many of the tasks performed by FB-111A respondents who have unique additional responsibilities.

F-111D

Unique to these TAC respondents is the use of the Air-to-Air Interrogator (AAI) Test Equipment Group (AN/APX-76 Hot Mock-up). Several tasks also point out this distinction: isolate malfunctions or remove or replace F/FB-111 APX-76 AAI switch amplifier SRUs or bits and pieces isolate malfunctions or remove or replace F/FB-111 APX-76 AAI receiver transmitters bits and pieces or SRU's isolate malfunctions in F/FB-111 fuel quantity intermediate devices align or benchcheck F/FB-111 APX-76 AAI radio set controls benchcheck or align F/FB-111 APX-76 AAI synchronizers set up avionics and support equipment for normal operation after mobility operations

Assigned to Cannon AFB (TAC), these respondents also maintain many of the same systems other 326X5 personnel do, such as the ARC-123 HF equipment, ILS glide slopes, or ARC-164 UHF equipment.

F-111F

Performing the highest average number of tasks (207) these USAFE respondents at Lakenheath U.K. also have the most experience (average 65 months in the service). Incumbents maintaining F-111F systems are distinguished by the use of the Tactical Air Navigation (TACAN) Test Equipment Group (AN/ARN-84 Hot Mock Up). Other units use the AN/ARN-118 Hot Mock-up. Several tasks also point out this distinction:

perform corrosion control of F/FB-111 simulators or mockups align F/FB-111 UHF antennas remove or replace F/FB-111 HF antenna coupler control mount bits and pieces benchcheck F/FB-111 TS-1843A/B test sets remove or replace F/FB-111 UPM-239A test set bits and pieces align F/FB-111 ARN-84 TACAN system receiver transmitter benchcheck F/FB-111 ARN-84 TACAN radio set controls remove or replace F/FB-111-84 TACAN electrical equipment mounting base bits and pieces

<u>FB-111A</u>

Having the most distinct job are SAC personnel assigned to FB-111A units at Pease and Plattsburgh AFBs. These respondents are the most inexperienced (average 39 months in service), and have only one set of test stations to use. As seen previously in the MAJCOM analysis, SAC respondents utilize a difference model of test station than other respondents (see Table 10), in the case of the Electrical (12A3439) and Mission and Traffic Control (12A16879) Test Stations. Additionally, they use Satellite Communications Test Stations more than other aircraft groups, but do not use TACAN or Emergency Radio Test Equipment Groups (AN/URM-95A) as often as other respondents. Tasks distinct to these respondents include: isolate malfunctions in F/FB-111 Mode IV Computers to SRU or chassis remove or replace F/FB-111 Mode IV Computer SRU's align FB-111 ARC-171 receiver transmitters align FB-111 SATCOM teleprinters benchcheck FB-111 ARC-171 receiver transmitters isolate malfunctions in FB-111 SATCOM controls to SRU or chassis remove or replace FB-111 SATCOM control SRU's

Like the F-111A and F-111E respondents, FB-111A incumbents maintain ARC-109 UHF equipment.

TRAINING ANALYSIS

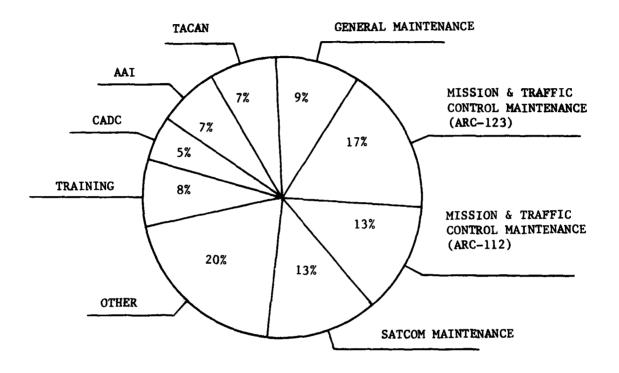
Occupational survey data are just one of many sources of information which can be used to help make training programs more meaningful and relevant to students. Factors provided in occupational surveys which may be used in evaluating training are: percent of first enlistment members performing task(s), utilization of equipment available at the technical school for training, task difficulty ratings, and training emphasis ratings. These factors can be used in evaluating the Specialty Training Standard (STS) and Plan of Instruction (POI) for the 326X5A and 326X5B specialties. Technical school personnel at Lowry AFB, CO, matched inventory tasks to areas of instruction outlined in STSs, dated April 1979, and the POIs for courses 3ABR32635A and 3ABR32635B, dated April 1980, for the 11 grated Avionics Manual Test Station specialty. A complete computer listing of the percent members performing, task difficulty, and training emphasis ratings for each task statement along with the STS and POI matchings have been forwarded to the technical school for their use in reviewing training documents. A summary of that information is described below.

AFS 326X5A

<u>Analysis of First Enlistment Personnel</u>. Each job type found in the F/FB-111 Manual Test Station Shop cluster contained personnel in their first enlistment. Figure 3 presents the distribution of 326X5A first enlistment personnel across job groups identified in JOB STRUCTURE section. The tasks listed as representative of first termers on Table 18 also contain equipment specific tasks performed by each job type. Overall, 103 tasks are performed by 50 percent or more of the first-term respondents, representing a solid core of tasks which would more than likely be performed by a person just entering the specialty. The most common Avionics AGE or Test Equipment groups utilized are listed on Table 19, most of which are available at the technical school and used in the basic resident training course. The most commonly performed tasks (see Table 18) relate to the most utilized avionics test equipment (see Table 19), especially in the areas of Central Air Data Computer, IFF, UHF, and electrical test station and assigned LRU mainte-nance. Finally, Table 20 lists the most common special tools or equipment utilized by first enlistment personnel. The thirty pieces of this type of equipment utilized by at least 30 percent of the AFS 326X5A incumbents include electronic equipment, such as stroboscopes, audio oscillators, phase voltmeters, pressure temperature test sets and differential sensitive Overall, 326X5A first enlistment personnel perform an operatorvoltmeters. maintainer function and will work on several items of equipment or test stations, but in most cases concentrate more of their time on one type of system.



JOB GROUP DISTRIBUTION OF AFS 326X5A FIRST ENLISTMENT PERSONNEL



TASKS MOST COMMONLY PERFORMED BY FIRST ENLISTMENT 326X5A PERSONNEL

TASK		PERCENT MEMBERS PERFORMING (N=71)
H197	INSTALL CAPS, PLUGS, OR DUST COVERS ON TEST STATIONS,	
	TEST EQUIPMENT, OR LRUS	90
H226	VISUALLY INSPECT AND CLEAN TEST STATIONS	86
	INVENTORY TEST STATIONS OR ROLLAWAYS	86
	VISUALLY INSPECT AND CLEAN LRUS	85
	PERFORM PERIODIC INSPECTIONS OF TEST EQUIPMENT	85
	PERFORM CONFIDENCE CHECKS OF TEST STATIONS	85
	PRESSURIZE LRUs	87
	CLEAN TEST STATION BLOWER FILTERS	85
H208	PERFORM PERIODIC INSPECTIONS OF TEST STATIONS	83
411200	BENCHCHECK E/FD-111 CENTRAL ATD DATA COMDITEDS	79
*P557	ISOLATE MALFUNCTIONS IN F/FB-111 ANTICOLLISION LIGHTS	79
P538	BENCHCHECK F/FB-111 ANTICOLLISION LIGHTS	79
*P527	ALIGN F/FB-111 ANTICOLLISION LIGHTS	76
	ORDER PARTS BY TELEPHONE	79
H223	REMOVE OR REPLACE TEST STATION LIGHT BULBS, FUSES OR	
	MINOR HARDWARE	79
*M393	BENCHCHECK F/FB-111 MAXIMUM SAFE MACH ASSEMBLIES	75
*F167	RESEARCH MICROFICHE FOR PART INFORMATION	76
*M404	ISOLATE MALFUNCTIONS ON F/FB-111 MAXIMUM SAFE MACH	
	ASSEMBLIES TO SRU OR CHASSIS	75
*F166	RESEARCH MANUALS FOR PART NUMBERS	75
H196	INSPECT EQUIPMENT FOR CURRENT CALIBRATION DATES	77
*K 272	BENCHCHECK F/FB-111 ARC-164 UHF RECEIVER TRANSMITTERS	75
*H222	REMOVE OR REPLACE TEST STATION CABLE ASSEMBLY PINS OR	
	HARDWARE	75
*P568	REMOVE OR REPLACE F/FB-111 ANTICOLLISION LIGHT BITS	
	AND PIECES	73
M426	REMOVE OR REPLACE F/FB-111 MAXIMUM SAFE MACH	
	ASSEMBLY SRUS	73
*H206	PERFORM FUNCTIONAL CHECKS OR TEST AND INSPECTION (T&I)	
	OF LRUS ISSUED FROM SUPPLY	73
	BENCHCHECK F/FB-111 ARC-164 UHF RADIO SET CONTROLS	73
*M399	ISOLATE MALFUNCTIONS IN F/FB-111 CENTRAL AIR DATA	
	COMPUTERS TO SRU OR CHASSIS	72
*M422	REMOVE OR REPLACE F/FB-111 CENTRAL AIR DATA COMPUTER	
	SRUs	72
H205		
	EQUIPMENT, OR LRUS	72

*** TASKS ALSO RATED HIGH IN TRAINING EMPHASIS BY F/FB-111 RATERS**

AVIONICS AGE TEST STATIONS OR TEST EQUIPMENT GROUPS UTILIZED BY AFS 326X5A FIRST ENLISTMENT PERSONNEL (30 PERCENT OR MORE UTILIZING)

EQUIPMENT	PERCENT FIRST ENLISTMENT MEMBERS USING
*CENTRAL AIR DATA COMPUTERS (12A1803A1)	90
*IDENTIFICATION-FRIEND-OR-FOE (IFF) TEST EQUIPMENT GROUPS	
(AN/APX-64 HOT MOCK UP)	82
*ULTRA HIGH FREQUENCY (UHF) TEST EQUIPMENT GROUPS	
(AN/ARC-164 HOT MOCK UP)	82
*COMMUNICATIONS AND NAVIGATIONAL AIDS TEST STATION (12A16850)	80
**IDENTIFICATION FRIEND-OR-FOE (IFF) MODE IV COMPUTER TEST	
EQUIPMENT GROUP (KIR/KIT)	72
**INSTRUMENT LANDING SYSTEM (ILS) TEST SETS	62
**RADAR TEST SETS AN/UPM-137	55
EMERGENCY RADIO TEST EQUIPMENT GROUPS (AN/URM-95A)	44
ELECTRICAL TEST STATIONS (12A3409)	49
MISSION AND TRAFFIC CONTROL TEST STATIONS (12A16849)	47
*MISSION AND TRAFFIC CONTROL TEST STATIONS (12A16879)	42
*TACTICAL AIR NAVIGATION (TACAN) TEST EQUIPMENT GROUPS	
(AN/ARN-118 HOT MOCK UPS)	41
ELECTRICAL TEST STATIONS (12A3439)	38
SIGNAL DATA CONVERTER TEST STATIONS	37
TACTICAL AIR NAVIGATION (TACAN) TEST EQUIPMENT GROUPS	
(AN/ARN-84 HOT MOCK UPS)	32

*USED IN THE 3ABR32635A COURSE **USED IN THE 3ABR32635B COURSE

SPECIAL TOOLS OR EQUIPMENT UTILIZED BY FIRST ENLISTMENT AFS 326X5A PERSONNEL (30 PERCENT OR MORE UTILIZING)

EQUIPMENT	PERCENT FIRST ENLISTMENT MEMBERS USING
STROBOSCOPES	97
OSCILLOSCOPES	93
MULTIMETERS (PSM-6, 410Cs, DIGITAL MULTIMETERS)	92
SOLDERING OR DESOLDERING TOOLS	90
SPECTRUM ANALYZERS	90
SIGNAL GENERATORS	89
DUMMY LOADS	87
POWER MEASURING DEVICES	86
TORQUE WRENCHES OR TORQUE SCREWDRIVERS	86
TIRE PUMPS AND GAUGES	83
PRESSURE TEMPERATURE TEST SETS (TTU-205)	83
FREQUENCY MEASURING DEVICES (OFF EQUIPMENT)	80
PHASE SENSITIVE VOLTMETERS (PSVM/PVM)	78
RF VARIABLE ATTENUATORS	78
RADIO FREQUENCY (RF) POWER AMPLIFIERS	78
AUDIO OSCILLATORS	76
DIFFERENTIAL VOLTMETERS	76
CAPACITOR TEST SETS (TF 20-1)	61
PULSE GENERATORS	68
CONNECTOR REPAIR KITS	65
RF MULTIMETERS	63
CAPACITANCE BRIDGES (METERS)	48
VOLTAGE AND CURRENT STANDARD DEVICES	47
CONTROL/MONITOR DEVICES	45
PRESSURE REGULATORS	39
DISTORTION ANALYZERS	38
COMPRESSED GAS BOTTLES	37
RESISTANCE DECADE/DIVIDERS	34
CAPACITANCE DECADE/DIVIDERS	32
ISOLATION BREAKDOWN TEST SETS	32

<u>Analysis of Training Emphasis and Task Difficulty</u>. The relative training emphasis of each F/FB-111 task in the inventory was assessed through ratings of 23 experienced 7- and 9-skill level NCOs in F/FB-111 integrated avionics manual test station shops. These ratings were processed to produce an ordered listing of all tasks in terms of their recommended emphasis for training of first enlistment AFS 326X5A personnel. The relative difficulty of each F/FB-111 task in the job inventory was assessed by 20 experienced 7-skill level NCOs in F/FB-111 manual test station shops. These tasks were processed to produce an ordered listing of all tasks in terms of their relative difficulty. (For a more complete description of these ratings, see the <u>Task Factor Administration</u> subsection in the SURVEY METHODOLOGY section of this report.)

The tasks rated highest in training emphasis for 326X5A first enlistment (first-term) personnel are shown on Table 21. Sixty-three tasks were rated above average in training emphasis, all of which are performed by 30 percent or more of the first-termers. A majority of these tasks deal with maintaining 12A16849 or 12A16879 (Mission and Traffic Control) Test Stations and assigned LRUs. Additionally, these tasks were rated high in task difficulty.

Unusual about the task difficulty ratings is the absence of supervisory or managerial tasks, which are rated as the most difficult to learn. Generally, in this survey, the most difficult tasks involve isolating malfunctions in Mission and Traffic Control Test Stations (12A6849 or 12A16879), Central Air Data Computers or test stations, (12A1803A1), ILS, ARC-123 HF, or ARC-109 UHF radios, and the APX-64 IFF systems. Several tasks were rated above average in difficulty, but were not performed by a substantial (30 percent or more) percent of the specialty incumbents, at any skill level. These tasks involve maintaining the APX-76 AAI or SATCOM systems and ARC-112 HF radios. Tasks involving removing or replacing, benchchecking, and aligning tended to be rated average in difficulty. General maintenance and forms annotation tasks were low in difficulty.

<u>Specialty Training Standard (STS) Analysis</u>. Items in the April 1979 STS were compared to survey data. The 326X5A STS is organized around Avionics AGE Test Equipment utilized to maintain specific aircraft systems. Those paragraphs in the current STS are accurate, in that personnel in the field are utilizing these items. Occupational survey data, however, indicate specialty incumbents working with additional equipment not mentioned in the STS. Equipment items, such as Satellite Communications (SATCOM) Test Stations and assigned LRUS, UHF Test Equipment Groups (AN/ARC-164), Radar Test Sets AN/UPM-137, and Signal/Data Converter Test Stations were responded to as being utilized by AFS 326X5A personnel. Several tasks relating to the 326X5A shred were not annotated to the STS (see Table 22). With the discrepancies pointed out above, a thorough review of the occupational survey data by technical school personnel could help them improve the guality of standards for the career field.

Plan of Instruction (POI) Analysis. The 326X5A Plan of Instruction (POI), dated April 1980, for the 108-day Integrated Avionics Manual Test Station and Component Specialist course taught at Lowry AFB, Colo., was also reviewed in a general sense against the survey data. The POI contains

TASKS RATED HIGHEST IN TRAINING EMPHASIS FOR AFS 326X5A FIRST ENLISTMENT PERSONNEL

TASK		TRAINING* EMPHASIS	PERCENT FIRST-TERMERS RESPONDING	TASK** DIFFICULTY
L292		7.0	49	6.1
L325	ISOLATE MALFUNCTIONS IN F/FB-111 ARC-123 HF			
	AMPLIFIER POWER SUPPLIES TO SRU OR CHASSIS	7.0	49	6.1
L331	ISOLATE MALFUNCTIONS IN F/FB-111 ARC-123 HF	7 0	10	6.3
1 201	RECEIVER TRANSMITTERS TO SRU OR CHASSIS ALIGN F/FB-111 ARC-123 HF RADIO SET CONTROL	7.0 6.8	48	6.1 5.6
L291	ALIGN F/FB-111 HF ANTENNA COUPLERS	6.8	49 61	5.0
L294 L308		0.0	01	5.9
F209	TRANSMITTERS	6.8	55	5.0
1.305	BENCH CHECK F/FB-111 ARC-123 HF AMPLIFIER	0.0	11	5.0
1303	POWER SUPPLIES	6.7	51	5.2
L329		0.7	51	J.2
2027	RADIO SET CONTROLS TO SRU OR CHASSIS	6.7	48	5.9
L289		•••	.0	3.7
	SUPPLIES	6.6	48	5.7
L335	ISOLATE MALFUNCTIONS IN F/FB-111 HF ANTENNA			
	COUPLER CONTROLS TO BIT AND PIECE	6.6	55	6.4
L293	ALIGN F/FB-111 HF ANTENNA COUPLER CONTROLS	6.6	58	5.1
L337	ISOLATE MALFUNCTIONS IN F/FB-111 HF ANTENNA			
	COUPLERS TO SRU OR CHASSIS	6.6	59	5.9
L296	ALIGN F/FB-111 12A16849 or 12A16879 TEST STATION			
	ARTIFICIAL ANTENNAS	6.5	51	6.3
L311	BENCHCHECK F/FB-111 HF ANTENNA COUPLERS	6.5	62	5.0
L326				
	AMPLIFIER POWER SUPPLIES TO BIT AND PIECE	6.5	42	6.9
L342	ISOLATE MALFUNCTIONS IN F/FB-111 12A16849 OR			
	12A16879 TEST STATION RF AMPLIFIERS TO SRU			
	OR CHASSIS	6.5	39	7.3
L298	ALIGN F/FB-111 12A16849 or 12A16879 TEST			
	STATION RF AMPLIFIERS	6.5	37	7.2
L327	ISOLATE MALFUNCTIONS IN F/FB-111 ARC-123 HF			
	MOUNTS TO SRU OR CHASSIS	6.5	46	5.4
L338	ISOLATE MALFUNCTIONS IN F/FB-111 HF ANTENNA			
	COUPLERS TO BIT AND PIECE	6.4	51	6.2
L345				
	12A16879 TEST STATION RF AMPLIFIERS TO BIT	6 1.	27	8.0
L297	AND PIECE ALIGN F/FB-111 12A16849 OR 12A16879 TEST STATION	6.4	37	0.0
D671	EXCITERS	6.4	41	6.6
		0.4	71	0.0

Contraction Addition

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AVERAGE TE RATING =** 2.6 (S.D. = 3.0) *AVERAGE TD RATING =** 5.0 (S.D. = 1.0)

47

IAP.E 22

T-D XSA 6.24 5.64 5.88 5.72 5.07 6.23 7.20 6.60 5.64 * • 38 5 • 64 9 • 77 4.04 4.05 4.04 3.98 8 54 5 08 5 08 5.00 5.09 52.] 45.8 81.3 74.0 78.1 67.7 65.6 79.2 61.5 71.9 55.2 79.2 67.7 45.8 45.8 38.5 63.5 3 N O C 12 3 N O 1 3 3 N O 1 3 5 N O 1 3 326 55A (H) 61.5 61.5 72.9 \$0.6 63.5 61.5 86.5 33.5 326 35A (1) 46.2 38.5 23.1 15.4 38.5 30.8 46.2 38.5 30.8 30.8 53.8 36.5 38.5 *6.2 61.5 23.1 49.4 60.6 60.6 50.7 50.7 50.7 67.6 46.5 78.6 68.8 54 - 6 26 - 1 26 54.9 64.8 36.6 40.8 52.1 63.4 59.2 76.1 35.2 9.09 83.1 36.6 40.8 74.2 36.6 38.0 57.7 85.9 33.8 ENL IST TASKS NOT REFERENCED TO STS 326X5A 7.04 6.33 6.55 6.55 6.55 648 6.35 6.22 6.13 5.70 5.65 5.65 5.65 6.39 5.52 5.48 5.30 5.30 5.26 5.09 5.09 1•E *5* 5.56 5.52 5.00 • 78 • 74 PERFORM PERIODIC INSPECTIONS OF TEST STATIONS ALIGN F/F8-111 12A1807A1 TLST STATION TAPF PLOCK READERS ANNOTATE SUPPLY CONTROL LOG FORMS (AF FOHM 2413) BENCHMEREK F/F8-111 ACC-164 UHF RAULO SF1 CONTROLS BENCHMEREK F/F8-111 MODE IV COMPUTERS ISOLATE MALFUNCTIONS IN F/F8-111 MODE IV CUMPUTERS TO SRU OR CMASSIS 38 ALIGN F/FB-111 MAXIMUM SAFE MACM ASSEMBLIES
240 ALIGN F/FB-111 INSTRUMENT LANDING SYSTEM (ILS) GLIDE
52.0PE MARKER BEACON PECEIVERS
52.0FE MALFUNCTIONS IN F/FB-111 ARC-16" UHF RECEIVER
52.7 ALIGM F/FB-111 ANTICOLLISCIM LIGHTS
52.7 ALIGM F/FB-111 ANTICOLLISCIM LIGHTS
52.7 ALIGM F/FB-111 LOCALIZER RECEIVERS
52.7 ALIGM F/FB-111 ARC-164 RAD_O SET
52.7 ALIGM F/FB-111 ARC-164 TEST SETS
52.7 BEMCHMECK F/FB-111 ARC-164 UHF RECEIVER ALIGN EMERGENCY RADIOS Perform confidence checks of f/fb-111 Arc-164 Test Group ALIGN F/FB-111 HF VARIABLE DIELECTRIC VACUUM CAPACITORS ALIGN F/FB-111 APX-64 IFF SYSTEM RECEIVER TRANSMITTERS ALIGN F/FB-111 ARC-123 HF HOUNTS ALIGN F/FB-111 ARC-123 HF HOUNTS DEMONSTRATE HOL TO LOCATE TECHNICAL INFORMATION RESARCH HILROPTCHE FOR PART INFORMATION ALIGN F/FB-111 ARC-164 UHF RECLIVER TRANSMITTERS ALIGN F/FB-111 ARC-164 UHF RECLIVER TRANSMITTERS REMOVE OR REPLACE TEST STATION CABLE ASSEMBLY PINS OR MOVE OR REPLACE F/FB-III ARC-164 UMF RADIO SET CONTRGL BENCHCHECK F/FB-111 APC-164 UHF FREQUENCY INDICATORS VISUALLY INSPECT AND CLEAN TEST STATIONS PERFORM QUALITY ASSUMANCE (QA) OR QUALITY CONTROL (QC) INSPECTIONS OF TEST STATIONS, TEST EQUIPHENT, OR LRU'S ALIGN F/FR-111 ARC-123 HF RECEIVER TRANSMITTERS ALIGN F/FB-111 ARC-123 HF RADIO SET CONTROL ALIGN F/FB-111 HF ANTENNA COUPLERS ALIGN F/FR-111 ARC-123 HF AMPLIFIER POWER SUPPLIES ALIGN F/FR-111 HF ANTENNA COUPLER CONTROLS ALIGN F/FB-111 12A16849 OR 12A16879 TEST STATION ARTIFICIAL ANTENNAS Ŗ ALIGN F/FB-111 12416849 R0 12416879 TEST STATION AMPLIFIERS ALIGN F/FB-111 12A16849 R0 12A16879 TEST STATION TASKS NOT REFERENCED TRANSMITTERS SPU'S TITLES EXCITERS HARDWARE 4 OCKUPS SRU'S ÷ 292 292 295 295 295 295 295 298 200 290 269 269 269 222 240 275 527 239 273 274 272 282 190 278 280 M 383 295 270 226 209 297 **TSK** 0 ¥ I 7 × . II צר × IX ۵ ×× z z ¥ * = 48

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STS326X5A MATCHED WITH OCCUPATIONAL SURVEY DATA

49 			1 • E	157	326	326	1.0
	D TSK	N 111LLS	404 +0+		55A (M)	558 (M)	X5A (F)
,	880 1	•	4.70	31.0	30.8	38.5	5,35
-	K 276	4 NU PLASUNE PANE 15 OLATE MALFUNCTI TRANSMITTERC TO	4.65	29.6	23.1	37.5	6.10
•	K 277	ISOLATE MALFUNCTIONS	4 . 56	31.0	23.1	39.6	5.74
•	H 213	REMOVE OR INSTALL	4.52	8.40	53.8	67.7	0 4 -1
•		REMOVE OR REPLACE F/FB-111 MODE IV COMPU		35.2	23.1	37.5	4.56
-		PERFORM PERIODIC INSPECTIONS OF TEST EQUIPMENT	***	84.5	53.8	82.3	-
	K 279	REMOVE OR REPLACE Pieces	***	36.6	23.1	42.7	9**
~	E 131	<	4 . 39	36.6	15.4	8.44	2.77
	F 164	PREPARE MATERIAL DEFICIENCY REPORTS	4.39	46.5	30.8	50.0	4 ° 8 9
-		CALIBRATE TORQUE		31.0	18.5		5
	F 160	ORDER PARTS BY TELEPHONE	4.26	78.9	53.8	62.3	-
~	K 281	REMOVE OR REPLACE Bits and pieces	4.26	35.2	23.1	*0 *	4.52
	C 85	æ	4.22	1.11	15.4	22.9	4.84
	F 165	PREPARE DUALITY C			1.16	3 71	
		ISOLATE MALFUNCTI			1.16		
	P 531	ALIGN F/FB-111 HI	4.17	#5.1	23.1	55.2	
u ŕ		SAFETY WIRE F/F8-	4.13	56.3	28°5	62.5	5.21
			4.09	43.7	30.8	46.9	4.26
,	K 283	REMOVE OR REPLACE Transmitter bite	* 0* *	33.8	23.1	38.5	4.96
•	H 380	ALIGN F/FB-111 CE	4 () - 4	19.7	40 ° 8	1.75	4.04
	H 201	ISOLATE MALFUN	4.00	16.3	15.4	17.7	
i.		PIECE			1		
		6 ALIGN F/FB-111 APX-76 AIR-10-AIR INTERROGATER (AAI) Defetwed toawemittede	4°00	e.5	•	10.4	6.74
	н 199	INVENTORY TEST ST	3.05		6.0.2		2.05
	M 385	ALIGN F/FB-111 SUBSYSTEN TIE-IN TES	3.83	22.5	7.7	27.1	5.59
		ALIGN F/FB-111 TS-1843A/B TEST SET	3.83	6.9	•	16.7	5.21
•	6 1/8	FOUTOWENT	3.78	۰.۲	15.4	12.5	
	Н 223	æ	3.76	78.9	#6.2	83.3	2 • 55
-	203 0	4INOR MARDWARE Alter fissessia anti-at tanks contracto tanks sites		•	1	•	
			3 • 7 B				
-		ALIGN F/FB-111 AR	3.70	56.3	38.5	20.03	5.64
		ALIGN F/FB-111 ARC-112 HF AMPLIFIER POWER	3.70	16.9	>	20.8	6.01
		BENCHCHECK F/F8-111 APX-76 IFF RADIO SET CONTROLS	3.70	15.5	0	16.7	69.4
-		MAINTAIN TECHNICA	3.65	16.3	ŝ	19.8	4.26
	H 212 H	PRESSURIZE LRU'S Alter Fiebelit Bostition and and and a		67.3	61.5	87.5	2.53
-			•	17.7	÷.	13.5	4.53
•	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	ALIGN F/FB-111 APX-76 AAI SYNCHRONIZERS	5.50	0°4			4 . 92
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T.D X5A (f) 4.81 5.24 2.82

•	\$153	STS326X5A MATCHED BITH OCCUPATIONAL SURVEY DATA			
50 			T • E	151	326
-	D TSK	X 111LES	* S *		4 5 7 (H)
•	N 473	3 ISOLATE MALFUNCTIONS IN F/FB-111 MODE IV INTERROGATOR	3.52	10.7	15.4
~	0 501	-	3.52	7.0	1.1
	6 183	٩	3.48	8 • • 9	53.8
•	I 234	œ	3.4.8	36.6	1.1
-	J 237 H 387	< <	8 4 - N 8 4 - N 8 4 - N	47.9 29.6	38.5 23.1
-		INDICATORS Align f/fb-111 Arc-112 HF Mounts	3.44	6°6	•
	X # 7	« H	##* ##* M	7.0 15.5	••
-	6 176 6 186	SRU OR CHASSIS 6 Maintain Interphone Ground Cords and Headsets 6 Prepare and Pack Avidyics and Sudport Equipment For	3 + 39 3 + 35	46.5 25.4	53.8 .0
•					
~	161 167 1	< HH	00.00 00.00 00.00	16.9 7.0 9.9	•••
	N 879	JP CHASSIS 9 ISOLATE HALFUNCTIONS IN F/F8-111 UPM-245 7ES7 SETS TO 417 AUD ATTER	3.22	6*6	•
-	L 284	<	3.17	15.5	7.7
-	0 502	•	3.17	7.0	0.
	P 530	LUNGERFERS 30 Align f/FB-111 fuselage fuel indicators an adeadar for:	3.17	25.4	15.4
•			11	15.5	
-	6 169	~	3.09	19.7	1.1
-	H 203	**	3.09	11.3	•
•		JULIS TO SKU OF CHASSIS ALIGN F/F8-111 TERRAIN FOLLOWING	3.09	7.0	7.7
-	17# N	7 ISOLATE MALFUNCTIONS IN F/F8-111 UPM-239/2 TEST SETS TO Bit and piece	3,09	12.7	.
•	F 157 N 481	E H	3.04 3.04	23.9 1.4	15.4 • D
-	6 175		3.00	4 • 1 4 • 1	1.1
-	H 193		2.96 2.96 2.96	1905 1805 1200 1200 1200	23.L
-	N 462	40CRUPS 2 isolate malfunctions in f/fb-111 upm-268 test sets to Sru 3 dp cmassis	2.96	1.4	•

13.5 13.5 13.5 25.0 22.9 14.6 16.7

16.7

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STS326X5A MATCHED WITH OCCUPATIONAL SURVEY DATA

15#	1.4E 75A 111LLS 000	1ST Enl (M)	326 358 . (H)	326 554 (M)	1.D X5A (f)
495 REMOVE OR REPLACE F/FB~111 HODE	/FB-111 MODE IV INTERROGATOR TEST SET 2.96	16.9	15.4	19.8	4.75
IONS IN F/FB D Pirce	-111 12A6659-2 TAPE READER 2.91	15.5	0.	18.8	5.65
F-15 TRU SRU'	S Receiver transmitters 2.91	1.4 5.6	0°.7	1.0	4.21 6.44
ALIGN F/FB-111 DUAL INDICA DEMOVE OD DEDLACE F/FD-111	ORS	28.2	30.8	27.1	9
PIECES Aliam f/fa-111 Att Deficing		1 0 0 0		46.7 16.7	
ALIGN F/FB-111 SELE	S	26.8		22.9	1 29
REVIEN EQUIPHENT R		11.3	7.7	18.5	9 . 06
301 ALIGN F/FB-111 ENGIME PRESSURE RATIO TRANSMITTERS 147 Maintain Benchstock Parts or Equipment Levels	O TRANSMITTERS Z.83 Ent levels Z.78	11.5	15.4	# M 6 4	5.11
MAINTAIN DAILY DOCI	ANCE	14.1	15.4	15.6	* 8 *
REMOVE OR	RADAR SYSTEM SRU'S	1.4	•	1.0	3.36
499 REMOVE OR REPLACE F/FP-111 UPM-245 Pieces	SET BITS AND	12.7	1.1	16.7	5.13
304 ALIGN F/FB-111 STANDBY ALTIMETERS	2.79	18.3	15.4	16.7	4.23
INSTALL CAPS, PLUGS, OR	2.7U DUST COVERS ON TEST STATIONS. 2.7D	90.1	69°2	1.19	1.21
TEST EQUIPMENT, OR LUR.					
450 FENTURY SELFTESTS OF FIRETIL ANTESS ISSU 472 ISOLATE MALFUNCTIONS IN FIF8-111 MODE IV CO alt amd Pifefe	54 1531 3513 E IV COMPUTERS TO 2.65	y.y 16.3	23.1	8.02 20.8	5.77
170 VERIFY DUE-IN FROM MAINTEMANCE (DIFM) (R-24)) DOCUMENT LISTINGS 2.61	21.1	15.4	26.0	4.35
180 MAINTAIN TEST EQUIPMENT STORAGE AREAS 235 Remove or replace f/f8-111 simulator or	S 2.61 P OR MOCKUP LIGHT 2.61	25.4 38.0	23.1	24.0	3.36
BULBS, FUSES, OR H Isolate Malfunction	INTERROGATOR 2.6	16.9	23-1	0.01	91.2
TEST SETS TO BIT A					
SUU WEMUVE UN WEPLALE F/FB-III UPH-268 TEST	SET BITS AND	8.62		3.1	90°5
PEFPARE OFFICTIVE		10.7		3-72	
	TO LEU COMPONENTS, 2.56 To any components, 2.56	1.4	0.	1.0	3.20
	LINE ITEM RELEASE/RECEIPT DOCUMENT 2.52	25.4	15.4	31.3	3.10
121 AVNOTATE EQUIPMENT DISCREPANCIES FORMS (AF FOR	H 2421)	11.3	7.7	10.4	3.56
127 ANNOTATE WON-WSN REGUISITION (MANUAL) FORMS fid form 1344-41	2	19.7	15.4	24.0	3.99
VERIFY SUPPLY DUE-0	5	14.1	15.4	15.6	4.10
445 HEMOVE OR REPLACE F/FR-III MUDE IV COMPUTER BITS Pieces	AND	16.9	15.4	17.7	5,31
171 VERIFY PHIORITY MONITOR REPORTS (D-18) 198 Install test stations in work areas	18) 2.430 2.30	21.1	7.7 15.4	25.N 46.9	4 • 34 3 • 53

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the qualitative requirements for course 3ABR32635A, in terms of criterion objectives for each unit of instruction and shows time, training standard correlation, support materials, and lesson plans. Topics covered in the course include electronic principles; F-111 Integrated Avionics Maintenance; HF and UHF Communications Systems; Communication and Navigational Aids Test Station; Mission and Traffic Control Test Station; Analysis and Maintenance of the Central Air Data Computer Test Station; TACAN (ARN-118); IFF Airborne Transponder System; and (if first assignment to F-111D unit) the Air-to-Air Interrogation System and Test Equipment Groups. Each of the items of equipment taught in the basic course are utilized by over 40 percent of the first enlistment respondents. The AAI system was uniquely responded to by personnel in F-111D units. The survey data very much support the content of this POI.

Data also indicated some areas which may be considered for inclusion into the course. First enlistment personnel were found maintaining SATCOM equipment. While only a small group of respondents form this job type (GRP081), the proportion of personnel in F-111D units maintaining AAI systems was also small. The same type of arrangement for instruction on SATCOM equipment could be provided as for AAI, contingent on unit of assignment.

As seen on Table 19 over 50 percent of the 326X5A first enlistment personnel utilize ILS, Radar Test Sets AN/UPM-137, and IFF Mode IV Computer test equipment groups, as do AFS 326X5B personnel. However, these items are not in the A shred course, but are included in the B shred course. Additionally, each job type formed in the job structure indicated using at least one of the two electrical test stations (12A3409 or 12A3439).

Several tasks rated high in training emphasis and task difficulty and performed by at least 30 percent of the first enlistment personnel, were not annotated to any area of the POI. Many of these tasks relate to the Electrical Test station (anticollision lights) or ILS test set which are not discussed in the course (see Table 23). Many of the tasks, however, relate to the ARC-123 HF Radio, 12A16850 CommNavAids test station, and UHF (ARC-164) test equipment group, which have other tasks referenced in the POI (Blocks X unit 9, VIII unit 3, and Block III unit 12, respectively). The tasks listed as not referenced should be reviewed by training personnel to determine their relevancy in training.

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TASKS NOT REFERENCED TO POI JABR32625A

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		4CX (f)						5.07		6.29	80° F		0 * • 5	6.16						# 5 #	5.63			5.66	6.17		4.61	5.90	3.18	E . 74	5.38	6.59	
<pre>D T34 TITLES TAILED FFERENCE TAXS NOT REFERENCE TAXS NOT REFERENCE TAXS NOT REFERENCE TAXS NOT REFERENCE T229 ALIEN F778-111 ARC-123 WF RECEIVER TRANSNITLAS T229 ALIEN F778-111 ARC-123 WF RECEIVER TRANSNITLAS T229 ALIEN F778-111 ARC-123 WF RECEIVER TRANSNITLAS T239 ALIEN F778-111 ARC-123 WF RUDUKTONS T331 ELEN F778-111 ARC-123 WF RUDUKTON T331 ELEN F778-111 ARC-123 WF RUDUKTON T239 ALIEN F778-111 ARC-123 WF RUDUKTON T230 ALIEN F778-111 ARC-123 WF RUDUKTON T239 ALIEN F778-111 ARC-123 WF RUDUKTON T230 ALIEN F778-111 ARC-123 WF RUDUKTON T230 ALIEN F778-111 ARC-123 WF RUDUKTON T230 ALIEN F778-111 ARC-113 HF RUTUKTON T230 ALIEN F778-111 ARC-113 HF RUTUKTON T230 ALIEN F778-111 ARC-133 HF RUDUKTON T230 ALIEN F788-111 12316450 T53 TATION T230 ALIEN F788-111 12316450 T53 TATION T330 ALIEN F788-1111 12316450 T53 TATION T330 ALIEN F788-111 12316450</pre>	151	Ë			49.3	10°	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	57.7	59.2	50.7	62 - 0	36.6	46.5	50.7	8 · U+	K2.1		# 6 M	53.5	36.6	42.3			43.7	43.7	78.9	13•2	52.1	6 * 3	54.9	59.2	46.5	i
D TSK ITTLES TASKS NOT REFERENCE TASKS NOT REFERENCES NET REFERENCE	1.E	4 	٠		7.04	6.83	6.78	0 • 0 • • •	6.56	6.52	6.52	6.48	6.48	** 9	6.39	. 1C	60.49	6.13	6.09	6°04 6°04	6 .04	4	0.00	5.96	5.96	5.96	5.91	5.91	5.87	5.87	5.83	5.78	I
· · · · · · · · · · · · · · · · · · ·		-	1		ALIGN F/FB-111 ARC-123 HF RECEIVER	ALIGN F/FB-111 ARC-123 HF RADIO SET	ALIGN F/FB-111 HF ANTENNA COUPLERS	ALIGN F/FB-111 AKC-123 HF AMPLIFIEK PONEN Align F/FB-111 HF Antenna Coupler Controls	ISOLATE MALFUNCTIONS IN F/FB-111 HF ANTENNA COUPLERS	ALIGN F/FB-111 12A16849 OR 12A16879 TEST	ARTIFICIAL ANTENNAS Bencmemer f/fb-111 hf	ALIGN F/FB-111 12416849 RO 12416879 TEST STATION	AMPLIFIERS Isolate Malfunctions in F/FB-111 Arc-123 MF Mounts to	JR CMASSIS ISOLATE MALFUNCTIONS IN F/FB-III HF ANTENNA COUPLERS	BIT AND PIECE Align F/FB-111 12A16849 R0 12A16879 TEST			ALIGN F/F8-111 ARC-123 HF	SENCHCHECK F/FB-111	DENCHCHECK F/FB-111 DENCHCHECK F/FB-111	CAPACITORS Isolate Malfunctions in F/FB-111 HF Antenna	CONTROL MOUNTS TO SRU OR CHASSIS	RECEIVER TRANSMITTERS TO BIT AND PIECE	ISOLATE MALFUNCTIONS IN F/FB-111 ARC-123 HF ait amd Pifef		ISOLATE WALFUNCTIONS IN F/FB-111 ANTICOLLISION LIGHTS	PERFORM FUNCTIONAL CHECKS OR TEST AND INSPECTION (I AND Jf LRU'S ISSUED FROM LUPPLY		AVNOTATE SIGNIFICANT HISTORICAL DATA	ISOLATE MALFUNCTIONS IN F/FB-111 12A16850 TEST To The campage of the second	TSOLATE WALFUNCTIONS IN F/FB-111 12416850 TEST TS TP 1PU	ISOLATE MALFUNCTIONS IN F/FB-111 ILS GLIDE SLOPE	BEACON RECEIVERS TO BIT AND PIECE
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POI JABR32635A MATCHED WITH SURVEY DATA

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				T•E	157	1.0
	9	1 SK	1111.65	40X		A5A (F)
÷				2		
	7	255	MALFUNCTIONS	5.74	54 . 9	5.94
-	7	256	BEACON RECEIVERS TO SRU OR CHASSIS Isolate Malfunctions in F/FB-111 ILS Localizer receivers	5.74	42.3	6.43
,						
•	2	1	ISOLATE MALFUNCTIONS IN F/FB-111 APX-64 IFF SYSTEM Becetwed toamsmitted to sou of charges	5.74	57.7	6.18
•	-	167		5.65	76.1	1.80
		269	ALIGN F/FB-111 ARC-164 UNF RECEIVER TRANSMITTERS	5.65	66.2	# 28
.	•		REMOVE OR REPLACE F/FB-111 ANTICOLLISION LIGHT BITS AND	5.65	73.2	16.1
			PIECES			
•	2	25	DENCHGURGU F/FB+111 APX-64 IFF SYSTER REGEJVER Thanswitters	5.61	62 • D	5.67
,	I	222	REMOVE OR REPLACE TEST STATION CABLE ASSLMBLY PINS OR	5.56	74.6	***
•		383	TARUPART. Aligh F/F8-111 Maximum Safi Mach Assimulifs	5.56	63.6	4.74
•		240	ALION F/FB-111 INSTRUMENT LANDING SYSTEM (1LS) GLIDE	5.52	59.2	
			SLOPE MARKER BEACON RECEIVERS			
-	*	275	ISOLATE MALFUNCTIONS IN F/FB-111 ARC-164 UNF RECEIVER Transmitteds to sour ad puscets	5.52	67.6	5.00
		523	ARANGTATERS TO JAC ON GAMAGAA Alter stebetti aktirdi.tetok iterte	5, 63	74.1	. 7 a
•	. "	5 6	ALIGN F/FB-111 LOCALIZER RECEIVERS		5 . 9	
•			BENCHCHECK F/FB-111 ILS BLIDE SLOPE MARKER BEACON	5.48	62.0	94.4
			RECEIVERS			
-	2		BENCHCHECK F/F8-111 ILS LOCALIZER RECEIVERS	5.48	59.2	* .65
		į	REMOVE OR REPLACE F/FN-111 APX-64 IFF SYSTEM RECEIVER	5.48	59°2	6 • 04
ļ			TRANSMITTER BITS AND PIECES			
•	2		BENGHENEER F/FB-111 APA-64 1FF STSTER CONTROL BOXES 1641 ATE MALEUMOTTONE TE F/ED-111 TLE LACALITED DECETVEDE		0.10	
		107	130LATE MALFUNCTIUNS IN FILD-111 ILS LUCALIZEN MELLIYENS To son od fuassis	DC.C		
•	×	273	ISOLATE MALFUNCTIONS IN F/FB-111 ARC-104 RADIO SET	5.30	64.8	4.77
			CONTROLS TO SRU OR CHASSIS			
•	*	274		5,30	46.5	26° #
			ISOLATE MALFUNCTIONS IN F/FB-III APX-64 IFF RAUIO SEI Pomidois to bit and difer	05.4	2.45	10+0 0+0
	z	183	REMOVE OR REPLACE F/FB-111 APX-64 IFF RADIO SET CONTROL	5.26	59.2	99-4
-						
			MEMOVE UN MEPLACE P778-111 ANC-123 HF MOUNI BIIS ANU Pieces	77.6		12•4
ų	ר	265	REMOVE OR REPLACE F/FR-111 ILS GLIDE SLOPE MARKER BEACON	5.17	8°64	11.3
	3	267	TECEITER BIJS AND FIELES Remove or replace f/fb-111 ils localizer peceiver bits	5.17	45.1	5.23
J					1	
	z		RÉMOVE OR REPLACE F/FR-111 APX-64 IFF SYSTEM RECEIVER Trainemitte seuve	5.17	59.2	. 74
-	ר	266	REMOVE OR REPLACE F/FB-111 ILS GLIDE SLOPF MARKER BEACON	5.13	52.1	4.20
		24.0	RECEIVER SRU'S Demove od bediace sjenij 1: s i ocalizio dicetved soute	6.11	47.0	4
-	ي. اب		ARTONE ON MERCACE FYEN-111 ILS LOCALIZER RELEIVEN SAU'S Solate Malfunctions in Fyen-111 He Antenna Coupler 1500-0000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000	5.13	36+6	5 * 32 5 * 32
			CONTROL MOUNTS TO BIT AND PIECE			

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POI 3468326354 MATCHED WITH SURVEY DATA

D TSK	111L.S	404		X5X (1)
K 282	REMOVE OR REPLACE F/FR-111 ARC-164 UHF RECEIVER Tdamsmittids sours	5.09	8.49	* • 0¢
000		40-2	16.7	
	AMMOTATE TACHE / THEN TH			• 1 1 P
	•	2.00		3.27
	(DD FORM 1577-2)	1		
K 278	PERFORM CONFIDENCE CHECKS OF F/FB-111 ARC-164 TEST GROUP #dekups	2.00	57.7	* 29
K 280	æ	5.00	60.6	3.98
	SRU'S			•
L 372	REMOVE OR REPLACE F/F8-111 HF VARIABLE DIELECTRIC VACUUM Fabaritade bite and differ	5.00	¥0.8	5.64
L 361	œ	4.96	43.7	4.92
H 206	PERFORM PERIUDIC INSPECTIONS OF TEST S	4.91	83.1	2 U . 4
		16.4	36.6	6.40
L 367	REMOVE OR REPLACE F/F8-111 HF ANTENNA	4.87	54.9	5.61
	PIECES		;	•
L 376	REMOVE OR REPLACE F/F8-111 12A16849 OR 12A16879 TEST stattom de ambiteted bite and diffe	4.87	36.6	6 . 37
1 379	REMOVE OR REPLACE F/ER-111		46.5	5.13
	STATION TRU BITS AND PIECES			5
E 137	<	4.83	40.8	3.20
	BENCHCHECK F/FB-111 NODE 1 V COMPUTERS	58.+	36.6	• • 65
N 471		# • 83	38.0	5.08
H 225	UK LMASSIS Visually inspect and clean lru's	4.78	84.5	3.23
L 370	_	78	35.2	5,06
L 375	8	* .78	33.8	9#*5
	STATIOW RF AMPLIFIER SRU'S			4
	CALIBWAIE F/FB-III ELECIMICAL ILSI SIAIION ALIEKS Démône do dédiate f/f0-111 me antenna compile com²c		42°2	82°+
P 538	BENCHCHECK F/FB-111 ANTICOLLISION LIGHTS	7.	78.9	- 00 -
	ANNOTATE UNSERVICEABLE (CONDEMNED) TAG MATEPIEL FORMS		49.3	5.17
	100 FORM 1577)			•
AD7 H			33°8	60°3
1 388	ALIGN F/FB-111 124180341 TEST STATION SIGNAL SIMUL	4.70	31.0	5,35
	AND MEASURE PANELS			
K 276	ISOLATE MALFUNCTIONS IN F/FB-111 ARC-164 UMF RECEIVER Teamemittee to bit and diffe	4.65	29.6	6.10
6 181	MAINTAILERS TO BUT AND FIELE Maintain tool boxes of consolidated tool kits (CTK)	4.56	43.7	3.86
	BENCHCHECK EMERGENCY RADIOS	. 56	1.2.1	. m
K 277		4.56	0.15	1 ×
	DLS TO PIT AND PIECE			1
н 213	OR INSTALL TEST REPLACEABLE UNITS (TRU'S) Or dediate fielding work to compute force	4.5 2		а н. 1
			35.2	a . 56
		; ; ; ; ; ;		0
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1ST ENL (N)

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5.63 4.68 3.19 5.03 4.84

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78.9 35.2 39.4

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DATA DATA V JUDILO MATCHED UTTH 1480134164

		P01 3/	JABRJZ&35A MATCHED WITH SURVEY DATA
•	56		
	۵	15 K	117165
ŕ	×	279	REMOVE OR REPLACE F/FR-111 AKC-164 TEST SET BITS AND Pieces
•	J	131	A S A
•	1 . 18	31	PREPARE MATERIAL DEFICIENCY REPORTS Calterate toroue wrenches
	I.) ang P	SPECT ECUIPMENT FOR CURRECT CALIBRATION DATES
-	-		TATION ARTIFICE ANTENNA SPUSS
ı	- 6-		EMOVE OR REPLACE F/FB-111 12A16849 OR 12A16879 TEST Station Artificial Antenna Bits and Pieces
•	•	507	F/FB-111 ARN-118 TACAN
-	6. 3	160	OPOER PARTS BY TELEPHONE Demove or replace fyfp-111 arc-164 inf radio set control
•	:		BITS AND PIECES
~		373	
,	U	5	REVIEW MAINTEMANCE DATA COLLECTION RECORD FORMS
į	L		(AFTO FORM 349) FOR ACCURACY December only its definition deposate
•	•		TITY S
	I		ISOLATE MALFUNCTIONS IN EMERGENCY RADIOS TO SRU
-	I	202	NTROL OF TEST
	Ĩ	191	UK LKU
•	•	531	LIFT POSITION MECHANISMS
	ר	252	ISOLATE MALFUNCTIONS IN F/FB-111 ARC-109 UNF RECEIVER Transmitters to bit and piece
	-	374	REMOVE OR REPLACE F/FB-111 12416849 OR 12416879 TEST
	I	544	SIRITOR EALTER BUIS AND FIELES Safety wire f/f8-111 central air data computer sru's
-	•	508	-118 TACAN RECEIVER TRANSMIT
	•	529	ALIGN F/FB-111 FUEL QUANTITY INTERMEDIATE DEVICES
-	•	553	BENCHCHECK F/FB-111 SELECT AND TOTAL FUEL
	¥		LI ARC-164 UHF REC
J	Ξ	380	ALIGN F/FB-111 CENTRA
,	I	201	ISOLATE MALFUNCTIONS IN EMERGENC
-	2		ALIGN F/FR-111 APX-76 AIR-10-AIR INTERROBATER (AAI)
	1		
	. 1	214	E SENSORS Bits and Pifef
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-	0	505	ELECTRICA

88008 MH6 •••• 5457 6552

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36.6

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POI 3488326354 MATCHED MITH SURVEY DATA

		XSA	FNL	
1 0	75N TITLES	•0•	E	
0 0	532 BENCHCHECK F/Fb-111 APN-84 TACAN SYSTEM RECEIVER	3.87	29.6	
	TRANSMITTERS	1		
in i R i	LAVENIONT LEST STATIONS OF POLLAMAYS	5°05	200 200 200	
	100 101 101 101 100000000 101 101 100 100 0000		<•27	
P 4				
			k • k	
	170 MAINTAIN NUCLEAR, BIOLOGICAL, AND CHEMICAL WARFARE	3.78	7.0	
N X	223 REMOVE OR REPLACE TEST STATION LIGHT BULBS, FUSES, OR 	3.76	78.9	
-	ALMUR MARUBARG Any 15ni Afe maifimetines te 5/60-111 subsystem tif-ju test	1.70	01.0	
	SETS TO SRU OR CHASSIS			
0	503 ALIGN F/FB-111 ARN-84 TACAN SYSTEM RECEIVER TRANSMITTERS	3.78	14.1	
	ALIGN F/FB-111 ARC-112 HF RECEIVER TRANSMITTERS	3.74	18.3	
Ē		3.74	19.7	
	SETS TO BIT AND PIECE			
2	234 ALIGN F/FB-111 ARC-109 UNF RECEIVER TRANSMITTERS	3.70	56.3	
	50 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-109 UHF RADIO	3.70	53.5	
	SET CONTROL LUR'S TO BIT AND PIECE	i		
N -	285 ALIGN F/FB-111 ARC-112 HF AMPLIFIER POWER SUPPLIES	3+70	16.9	
		3.70	15.5	
	THE REMUTE OF REPEACE F/FB-III AFX-ID AAL RECEITER Teamcattted souts	0/ • 4		
-		LAC	1.0.1	
	210 PERFORM TIME COMPLIANCE TECHNICAL ORDER (TCTO) INSPECTIONS	3.65	29.6	
		3.65	87.3	
Ŧ	429 REMOVE OR REPLACE F/FB-111 SUBSYSTEM TIE-IN TEST SET SRU'S	3.65	23.9	
	966 ISOLATE MALFUNCTIONS IN F/FB-111 APX-76 AAI RECFIVER Teanemitted to fem ab cuteit	3.65	5.6	
	TARANALIJENS JU JAU UN EMADOLO 34 aiter f/feliji dasttian kfilanisk assendits	1.4.1	1.5.7	
	JUST AFAGM TTPETAL TVALLUM MECHANAJA ANGEMETES Dy triimeei toatmees in toatmees	10.01		
	V. DOVULL TATATIC ON TAIMUTO TACOULOS 316 démonto de defeitre destroises			
			16.9	
		3.55	26.8	
I	430 REMOVE OR REPLACE F/FB-111 SUBSYSTEM TIE-IN TEST SET BITS	3.56	21.1	
	AND PIECES			
	4	3.52	43.7	
4 2		3.52	7.0	
*	#73 ISOLATE MALFUNCTIONS IN F/FB+111 MODE IV INTE?ROGATOR	3.52	19.7	
		1	I	
0 0	501 ALIGN F/FB+111 ARN-118 TACAN RECEIVER TRANSMITTER Anabites	3.52	7.0	
9 9	163 PACM OR UNPACK LINE REPLACEABLE UNITS (LRU'S) OR SHOP	3.48	8.84	
	REPLACEARLE UNITS (SPU'S) FOR SHIPMENT			
12	234 REMOVE OR REPLACE F/FR-III SIMULATOR OR MOCKUP CABLE	3.48	36.6	
	ASSEMBLY PINS OR MARTWARE			
2	237 ALTGM F/FR-111 ARC-109 NMF DADIO SFT FONTONI 10105		-	

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13 TILLS X34 X34 X44 13 ALIGN F/FG-111 12A1003A1 1'LST STATON ANGLE POSITION X44 X46 13 MATGM F/FG-111 12A1003A1 1'LST STATON ANGLE POSITION X44 X46 13 MATGM F/FG-111 12A1003A1 1'LST STATON ANGLE POSITION X44 X46 14 PEROPEC OR REPLACE F/FFG-111 ANG-41 HEGCTURE X44 X46 15 TRANSTTER BITS AND FLEX STATON ANGLE POSITION X44 X46 15 TRANSTTER DITTERS OF DEVICE AND ALCOLOGY X44 X46 15 TRANSTTER DITTERS OF DEVICE AND ALCOLOGY X44 X46 15 MODALTA ANTENET OF FIGLE OF TRANSTTERS X44 X46 15 MODALTA ANTENET OF FIGLE OF MALLITER POSTION X44 X46 16 FORMITSA X46 X46 X46 17 MODALTA ANTENET OF FIGLE OF MALLITER POSTION X44 X46 18 MIGN F/FFG-111 ANG-122 MF RECEIVER TRANSTTERS X44 X46 19 MIGN F/FFG-111 ANG-122 MF ANGLATE X44 X46 X46 19 MIGN F/FFG-111 ANG-122 MF ANGLATE X44 X46 X46 <td< th=""><th>134 TILES 137 ALISM F/FB-111 12A1803A1 TESI STATION ANGLE POSITION 138 RENCHARGES 139 TOUR REPLACE T/FP-111 JAPA-76 AAI RECEIVER 1400.000 REPLACE T/FP-111 APA-76 AAI RECEIVER 1400.000 REPLACE T/FP-111 APA-76 AAI RECEIVER 1400.000 REPLACE T/FP-111 ARA-94 TACAN SYSTEM 124 REPLACE T/FB-111 ARC-112 WF REELEWER TRANSWITTERS 125 REPORT F/FB-111 ARC-112 WF REELEWER TRANSWITTERS 126 REPORT F/FB-111 ARC-112 WF REELEWER TRANSWITTERS 127 REPORT F/FB-111 ARC-112 WF REELEWER TRANSWITTERS 128 REPORT F/FB-111 ARC-112 WF REELEWER TRANSWITTERS 128 REPORT F/FB-111 ARC-112 WF REELEWER TRANSWITTERS 129 REPORT F/FB-111 ARC-112 WF REELEWER TRANSWITTERS 130 REMEMBER F/FB-111 ARC-112 WF REELEWER TRANSWITTERS 131 REPORT F/FB-111 ARC-112 WF REELEWER TRANSWITTERS 132 REPORT F/FB-111 ARC-112 WF RANLETER POWER SUPPLIES 133 REPORT F/FB-111 ARC-112 WF ANDLIFTER POWER SUPPLIES 134 REPORT F/FB-111 ARC-112 WF REDELEWER FOR 135 REPORT F/FB-111 ARC-112 WF ANDLIFTER POWER SUPPLIES 135 REPORT F/FB-111 ARC-112 WF REDECIVER 136 REPORT F/FB-111 ARC-112 WF REDECIVER 137 ROD RECEIVER F/FB-111 ARC-112 WF RECEIVER 138 REPORT F/FB-111 ARC-112 WF ANDLIFTER POWER SUPPLIES 139 REFERENCE F/FB-111 ARC-112 WF RECEIVER 130 REPORT F/FB-111 ARC-112 WF RECEIVER 131 REPORT F/FB-111 ARC-112 WF RADIO SET CONTROL 131 REPORT F/FB-111 ARC-102 WF RADIO SET CONTROL 131 REPORT F/FB-111 ARC-102 WF RADIO SET CONTROL 131 REPORT F/FB-111 ARC-102 WF RADIO SET CONTROL 131 REPORT F/FB-111 ARC-112 WF RADIO SET CONTROL 131 REPORT F/FB-111 ARC-112 WF RADIO SET CONTROL 132 REPORT F/FB-111 ARC-112 WF RADIO SET CONTROL 133 REPORT F/FB-111 ARC-112 WF RADIO SET CONTROL 134 REPORT F/FB-111 ARC-112 WF RADIO SET CONTRO</th><th></th><th>8</th><th></th><th>TeE</th><th>157</th><th>I.D</th></td<>	134 TILES 137 ALISM F/FB-111 12A1803A1 TESI STATION ANGLE POSITION 138 RENCHARGES 139 TOUR REPLACE T/FP-111 JAPA-76 AAI RECEIVER 1400.000 REPLACE T/FP-111 APA-76 AAI RECEIVER 1400.000 REPLACE T/FP-111 APA-76 AAI RECEIVER 1400.000 REPLACE T/FP-111 ARA-94 TACAN SYSTEM 124 REPLACE T/FB-111 ARC-112 WF REELEWER TRANSWITTERS 125 REPORT F/FB-111 ARC-112 WF REELEWER TRANSWITTERS 126 REPORT F/FB-111 ARC-112 WF REELEWER TRANSWITTERS 127 REPORT F/FB-111 ARC-112 WF REELEWER TRANSWITTERS 128 REPORT F/FB-111 ARC-112 WF REELEWER TRANSWITTERS 128 REPORT F/FB-111 ARC-112 WF REELEWER TRANSWITTERS 129 REPORT F/FB-111 ARC-112 WF REELEWER TRANSWITTERS 130 REMEMBER F/FB-111 ARC-112 WF REELEWER TRANSWITTERS 131 REPORT F/FB-111 ARC-112 WF REELEWER TRANSWITTERS 132 REPORT F/FB-111 ARC-112 WF RANLETER POWER SUPPLIES 133 REPORT F/FB-111 ARC-112 WF ANDLIFTER POWER SUPPLIES 134 REPORT F/FB-111 ARC-112 WF REDELEWER FOR 135 REPORT F/FB-111 ARC-112 WF ANDLIFTER POWER SUPPLIES 135 REPORT F/FB-111 ARC-112 WF REDECIVER 136 REPORT F/FB-111 ARC-112 WF REDECIVER 137 ROD RECEIVER F/FB-111 ARC-112 WF RECEIVER 138 REPORT F/FB-111 ARC-112 WF ANDLIFTER POWER SUPPLIES 139 REFERENCE F/FB-111 ARC-112 WF RECEIVER 130 REPORT F/FB-111 ARC-112 WF RECEIVER 131 REPORT F/FB-111 ARC-112 WF RADIO SET CONTROL 131 REPORT F/FB-111 ARC-102 WF RADIO SET CONTROL 131 REPORT F/FB-111 ARC-102 WF RADIO SET CONTROL 131 REPORT F/FB-111 ARC-102 WF RADIO SET CONTROL 131 REPORT F/FB-111 ARC-112 WF RADIO SET CONTROL 131 REPORT F/FB-111 ARC-112 WF RADIO SET CONTROL 132 REPORT F/FB-111 ARC-112 WF RADIO SET CONTROL 133 REPORT F/FB-111 ARC-112 WF RADIO SET CONTROL 134 REPORT F/FB-111 ARC-112 WF RADIO SET CONTRO		8		TeE	157	I.D
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439 BURCHARTAN FIG-111 FIG-181 FIG FIG </td <td> SE BENGLEGINGS AN FLATAJA TEST SETS SE REVOLCICA F/FB-111 TA-Y-6 AAI HCCELVER TRANSTITTER STIT AND PLECES SE TRANSTITTER TO PLECES SELATE MALFUNCTIONE IN F/FB-111 HABH LIFT POSITION HCCMATE MALFUNCTIONE IN F/FB-111 UPH-239/A TEST STITCA ALLEW F/FB-111 ARC-112 HF MOUNTS ADD REMEMERTER F/FB-111 ARC-112 HF ANNLIFTER FOM 114 SENCHKCK F/FB-111 ARC-112 HF ANNLIFTER POURT STITCA ALLEW F/FB-111 ARC-112 HF ANNLIFTER POURT STITCA ALLEW F/FB-111 ARC-112 HF ANNLIFTER FOR ALLEW F/FB-111 ARC-112 HF ANNLIFTER POURT STITCA ALLEW F/FB-111 ARC-112 HF ANNLIFTER POURT STITCA ADD REMEMERTER AND PLECE AND SUPPORT EQUIPMENT FOR POUNTH BARES FOR CHARCK F/FB-111 ARC-112 HF ANNLIFTER POURT STITCA ADD PLECES F/FB-111 ARC-112 HF ANNLIFTER POURT STITCA ADD ALL AND FLECE AND SUPPORT EQUIPMENT FOR POUNTH BARES FOR CHARCK F/FB-111 ARC-112 HF ANNLIFTER POURT STITCA ADD ALL AND PLECES TO BIL AND PLECE AND SUPPORT EQUIPMENT FOR POUNTH BARES FOR CHECK F/FB-111 ARC-112 HF ALC-112 HF RECEIVER ADD ALL AND PLECES TO BIL AND PLECE F/FB-111 ARC-112 HF RECEIVER ADD ALL AND PLECES TO BIL AND PLECES FOR CHECK F/FB-111 ARC-112 HF ALC-112 HF RECEIVER ADD ALL ALLUNCTIONS IN F/FB-111 ARC-112 HF RECEIVER ADD ALC ANTANTITERS TO SUL OR CHASSIS SOLATE MALFUNCTIONS IN F/FB-111 ARC-120 WF RADIO SET CONTROL. SULATE MALFUNCTIONS IN F/FB-111 ARC-122 HF AND PLECES SULATE MALFUNCTIONS IN F/FB-111 ARC-122 HF AND PLECES SULATE MALFUNCTIONS IN F/FB-111 ARC-122 HF AND PLECES SULATE MALWERTONS IN F/FB-111 ARC-122 HF AND PLECES<</td> <th></th> <th></th> <td></td> <td>3.48</td> <td>29.6</td> <td>5.47</td>	 SE BENGLEGINGS AN FLATAJA TEST SETS SE REVOLCICA F/FB-111 TA-Y-6 AAI HCCELVER TRANSTITTER STIT AND PLECES SE TRANSTITTER TO PLECES SELATE MALFUNCTIONE IN F/FB-111 HABH LIFT POSITION HCCMATE MALFUNCTIONE IN F/FB-111 UPH-239/A TEST STITCA ALLEW F/FB-111 ARC-112 HF MOUNTS ADD REMEMERTER F/FB-111 ARC-112 HF ANNLIFTER FOM 114 SENCHKCK F/FB-111 ARC-112 HF ANNLIFTER POURT STITCA ALLEW F/FB-111 ARC-112 HF ANNLIFTER POURT STITCA ALLEW F/FB-111 ARC-112 HF ANNLIFTER FOR ALLEW F/FB-111 ARC-112 HF ANNLIFTER POURT STITCA ALLEW F/FB-111 ARC-112 HF ANNLIFTER POURT STITCA ADD REMEMERTER AND PLECE AND SUPPORT EQUIPMENT FOR POUNTH BARES FOR CHARCK F/FB-111 ARC-112 HF ANNLIFTER POURT STITCA ADD PLECES F/FB-111 ARC-112 HF ANNLIFTER POURT STITCA ADD ALL AND FLECE AND SUPPORT EQUIPMENT FOR POUNTH BARES FOR CHARCK F/FB-111 ARC-112 HF ANNLIFTER POURT STITCA ADD ALL AND PLECES TO BIL AND PLECE AND SUPPORT EQUIPMENT FOR POUNTH BARES FOR CHECK F/FB-111 ARC-112 HF ALC-112 HF RECEIVER ADD ALL AND PLECES TO BIL AND PLECE F/FB-111 ARC-112 HF RECEIVER ADD ALL AND PLECES TO BIL AND PLECES FOR CHECK F/FB-111 ARC-112 HF ALC-112 HF RECEIVER ADD ALL ALLUNCTIONS IN F/FB-111 ARC-112 HF RECEIVER ADD ALC ANTANTITERS TO SUL OR CHASSIS SOLATE MALFUNCTIONS IN F/FB-111 ARC-120 WF RADIO SET CONTROL. SULATE MALFUNCTIONS IN F/FB-111 ARC-122 HF AND PLECES SULATE MALFUNCTIONS IN F/FB-111 ARC-122 HF AND PLECES SULATE MALFUNCTIONS IN F/FB-111 ARC-122 HF AND PLECES SULATE MALWERTONS IN F/FB-111 ARC-122 HF AND PLECES<				3.48	29.6	5.47
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*78 ISOLATE MALUNCTIONS IN F/F8-111 UPM-239/A TEST SETS TO 3.44 15.5 \$80. OR CMSSIS. BRU OR CMSSIS. 5.15 5.44 2.6 \$17 BRU OR CMSSIS. 11.6 14.1 3.44 2.6 \$17 BRUCKHECK F/F8-111 ENEINE FUEL CONTROL MACH UNIT TRIN 3.44 26.8 \$20.0 BRUCKHECK F/F8-111 AR-112 HF AMLIFIER POWER SUPPLIES 3.39 46.5 \$20.0 BRUCKHECK F/F8-111 AR-112 HF AMLIFIER POWER SUPPLIES 3.39 46.5 \$20.0 BRUCKHECK F/F8-111 AR-112 HF AMLIFIER POWER SUPPLIES 3.39 50.6 \$20.0 BRUCKHECK F/F8-111 AUL INDICATING OL QUMNITY 3.35 50.6 \$20.0 BRUCKHECK F/F8-111 AUL INDICATING OL QUMNITY 3.35 50.6 \$20.0 BRUCKHECK F/F8-111 AUL INDICATING OL QUMNITY 3.35 50.6 \$20.0 BRUCKHECK F/F8-111 AUC-112 HF RECLIER 3.35 50.6 50.6 \$20.0 BRUCKHECK F/F8-111 AUC-112 HF RECLIER 3.35 50.6 50.6 \$20.0 BRUCKHECK F/F8-111 AUC-112 HF RECLIER 3.35 50.6 50.6 \$20.0 BRUCKHECK F/F8-111 AUC-112 HF RECLIER 3.35 50.7 <	 *78 ISOLATE MALFUNCTIONS IN F/F8-111 UPM-239/A TEST SETS TO \$200 OR CHASSIS 591 DENEMENECK F/F8-111 ENGINE FUEL CONTROL MACH UNIT TRIM SETS 176 MAINTAN INTERPHONE GROUND CORDS AND MEADSETS 509 DENEMENECK F/F8-111 ARC-112 HF AMPLIFIER PUWER SUPPLIES 509 DENEMENECK F/F8-111 ANU-64 TACAM ELECTRICAL EQUIPMENT MOUNTIFY 509 DENEMENECK F/F8-111 ARC-112 HF REDITY 510 DENEMENECK F/F8-111 ANC-109 UHF RADIO SET CONTROL LRU'S 511 DENEMENECK F/F8-111 ANC-109 UHF RADIO SET CONTROL LRU'S 52 SEMCHAECK F/F8-111 ANC-109 UHF RADIO SET CONTROL LRU'S 53 SEMCHAECK F/F8-111 ANC-109 UHF RADIO SET CONTROL LRU'S 54 STATTANSMITTERS TO BIT AND DIECE 57 SIGLATE MALFUNCTIONS IN F/F8-111 ARC-112 HF RECEIVER TRANSMITTERS TO BIT AND DIECE 53 SIGLATE MALFUNCTIONS IN F/F8-111 ARC-112 HF RECEIVER TRANSMITTERS TO STU OR CHASSIS 53 SIGLATE MALFUNCTIONS IN F/F8-111 ARC-112 HF RECEIVER 53 SIGLATE MALFUNCTIONS IN F/F8-111 ARC-112 HF RECEIVER 64 F/F8-111 1236659-2 TAFE READER UNITS 53 SIGLATE MALFUNCTIONS IN F/F8-111 ARC-127 HF RECEIVER 78 ANSHITTERS TO STU OR CHASSIS 78 MASHITTERS TO STU OR CHASSIS 78 SIGLATE MALFUNCTIONS IN F/F8-111 ARC-127 HF RECEIVER 80 SIGLATE MALFUNCTIONS IN F/F8-111 ARC-127 HF RECEIVER 81 SIGLATE MALFUNCTIONS IN F/F8-111 ARC-132 HF RADIO SET CONTROL 81 SIGLATE MALFUNCTIONS IN F/F8-111 ARC-132 HF RADIO SET CONTROL 81 SIGLATE MALFUNCTIONS IN F/F8-111 ARC-103 HF RADIO 81 SIGLATE MALFUNCTIONS IN F/F8-111 ARC-103 HF RADIO 81 SIGLATE MALFUNCTIONS IN F/F8-111 ARC-103 HF RADIO 81					7.0	6.35
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17.MINING MININ	 17. MINTAIN INTERPHONE GROUND CORDS AND MEADEFTS 13. BENCHCHECK F/FB-111 ARC-112 HF ANPLIFTER PUER SUPPLIES 29. BENCHCHECK F/FB-111 ARC-112 HF ANPLIFTER PUER SUPPLIES 29. BENCHCHECK F/FB-111 DUAL INDICATING OIL QUANTITY 31. DETECTORS 39. BENCHCHECK F/FB-111 DUAL INDICATING OIL QUANTITY 31. DETECTORS 32. EENCHCHECK F/FB-111 DUAL INDICATING OIL QUANTITY 32. EENCHCHECK F/FB-111 ARC-109 UHF RADIO SET CONTROL LRU'S 33. SOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF RECEIVER 33. SOLATE MALFUNCTIONS IN F/FB-111 INC-112 HF RECEIVER 33. SOLATE MALFUNCTIONS IN F/FB-111 INC-112 HF RECEIVER 33. SOLATE MALFUNCTIONS IN F/FB-111 INC-112 HF RECEIVER 33. SOLATE MALFUNCTIONS IN F/FB-111 INC-122 HF RECEIVER 34. D FICCS 35. SOLATE MALFUNCTIONS IN F/FB-111 ARP-134 TEST SETS 35. SOLATE MALFUNCTIONS IN F/FB-111 ARP-145 TEST SETS 35. BECHCHECK F/FB-111 ARP-35 TEST SETS 35. BECHCHECK F/FB-111 ARC-109 UHF RADIO SET CONTROLS 				5.44	26.8	4.19
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509BENCHCEKE F/FB-111AND-WATTAKELCORELEQUIPMENT5.3911.5540BENCHCEKER F/FB-111DUALTNDICATINGOL QUANTITY3.3950.7541DETECTORSJETECTORS3.3551.525.410PREPAREAMDPACK ANTONICS AND SUPPORT EQUIPMENT FOR3.3550.6273SELECTORS3.3550.653.3514.1274SELECTOREAMD PACK ANTONICS AND SUPPORT EQUIPMENT FOR3.353.35274SELECTORETABOUTTONS IN F/FB-111 ARC-112 MF RECEIVER3.353.35275SELECTOREFRE-111 ARC-112 MF RECEIVER3.3532.4273SELATE MAFUNCTIONS IN F/FB-111 ARC-112 MF RECEIVER3.3016.9273SELATE MAFUNCTIONS IN F/FB-111 ARP-134 TEST SETS3.3015.5273SELATE MAFUNCTIONS IN F/FB-111 ARP-134 TEST SETS3.307.0273SELATE MAFUNCTIONS IN F/FB-111 ARP-134 TEST SETS3.307.0273SELATE MAFUNCTIONS IN F/FB-111 ARP-134 TEST SETS3.307.0273SELATE MAFUNCTIONS IN F/FB-111 ARP-134 TEST SETS TO SRU3.307.0273SELATE MAFUNCTIONS IN F/FB-111 ARP-134 TEST SETS TO SRU3.307.0274BITS AND PECESSRU OR CHASSIS3.307.0 </td <td> SO9 BENCHMECK F/FB-111 APN-8* TACAM ELECTRICAL EQUIPHENT HOUNTING BASES S40 BENCHEEK F/FB-111 DUAL INDICATING OIL QUANTITY DETECTORS 186 PREPARE AMD PACK AVIONICS AND SUPPORT EQUIPHENT FOR 4001LITY OPERATIONS 186 PREPARE AMD PACK AVIONICS AND SUPPORT EQUIPHENT FOR ANDHITTY OPERATIONS 187 SA01ATE MALFUNCTIONS IN F/FB-111 ARC-112 HF RECEIVER TRANSHITTERS TO BIT AMD PIECE 573 RENCHECK F/FB-111 ARC-112 HF RECEIVER TRANSHITTERS TO BIT AMD PIECE 573 SOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF RECEIVER 573 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF RECEIVER 580 SOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF RECEIVER 590 RENCHECK F/FB-111 APN-94 TACAM RADIO SET CONTROLS 510 BENCHECK F/FB-111 APN-94 ELECTRICAL 511 BENCHECK F/FB-111 ARC-109 UHF RADIO SET CONTROLS 511 BENCHECK F/FB-111 ARC-109 UHF RADIO SET CONTROLS 512 BENCHECK F/FB-111 ARC-109 UHF RADIO SET CONTROLS 513 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF ANDIO SET CONTROLS 513 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF ANDIO SET CONTROLS 513 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF ANDIO SET CONTROLS 513 BENCHECK F/FB-111 APN-95 TO SRU OR CHASSIS 524 RENOVE OR REPLACE F/FB-111 ARC-112 HF ANDIO SET CONTROLS 513 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF ANDIO SET CONTROLS 513 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF ANDIO SET CONTROLS 514 PAUSHITTERS 515 AND PIECES 515 BENCHECK F/FB-111 APC-112 ARC-112 HF ANDIO SET CONTROLS 514 PAUSHITERS 515 ISOLATE MALFUNCTIONS IN F/FB-113 ARC-112 HF ANDIO SET CONTROLS<</td> <th></th> <th></th> <td>DENCHCHECK F/FB-111 ARC-112 HF ANPLIFIER POVER</td> <td>3.39</td> <td>18.3</td> <td>5.27</td>	 SO9 BENCHMECK F/FB-111 APN-8* TACAM ELECTRICAL EQUIPHENT HOUNTING BASES S40 BENCHEEK F/FB-111 DUAL INDICATING OIL QUANTITY DETECTORS 186 PREPARE AMD PACK AVIONICS AND SUPPORT EQUIPHENT FOR 4001LITY OPERATIONS 186 PREPARE AMD PACK AVIONICS AND SUPPORT EQUIPHENT FOR ANDHITTY OPERATIONS 187 SA01ATE MALFUNCTIONS IN F/FB-111 ARC-112 HF RECEIVER TRANSHITTERS TO BIT AMD PIECE 573 RENCHECK F/FB-111 ARC-112 HF RECEIVER TRANSHITTERS TO BIT AMD PIECE 573 SOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF RECEIVER 573 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF RECEIVER 580 SOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF RECEIVER 590 RENCHECK F/FB-111 APN-94 TACAM RADIO SET CONTROLS 510 BENCHECK F/FB-111 APN-94 ELECTRICAL 511 BENCHECK F/FB-111 ARC-109 UHF RADIO SET CONTROLS 511 BENCHECK F/FB-111 ARC-109 UHF RADIO SET CONTROLS 512 BENCHECK F/FB-111 ARC-109 UHF RADIO SET CONTROLS 513 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF ANDIO SET CONTROLS 513 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF ANDIO SET CONTROLS 513 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF ANDIO SET CONTROLS 513 BENCHECK F/FB-111 APN-95 TO SRU OR CHASSIS 524 RENOVE OR REPLACE F/FB-111 ARC-112 HF ANDIO SET CONTROLS 513 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF ANDIO SET CONTROLS 513 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF ANDIO SET CONTROLS 514 PAUSHITTERS 515 AND PIECES 515 BENCHECK F/FB-111 APC-112 ARC-112 HF ANDIO SET CONTROLS 514 PAUSHITERS 515 ISOLATE MALFUNCTIONS IN F/FB-113 ARC-112 HF ANDIO SET CONTROLS<			DENCHCHECK F/FB-111 ARC-112 HF ANPLIFIER POVER	3.39	18.3	5.27
540BENCHATER DETECTORS54050.7541DETECTORSDETECTORS5.11541DETECTORSDETECTORS5.35541DETECTORSSTETCTORS5.35541DETECTORSSTETCTORS5.35542BENCHCHECK F/F0-111ARC-112HF RECELVER543STGLATEMANSHITTES10544STGLATEMANSHITTES5.35545STGLATEMANSHITTES5.35544STRENCHCHECK5.35545STGLATEMANSHITTES5.35544STRENCHCHECK5.35545STGLATEMANSHITTES5.35545STRENCHCHECK5.35545STRENCHCHECK5.35545STRENCHCHECK5.35545STRENCHCHECK5.35545STRENCHCHECK5.35545STRECELVER5.35545STRECELVER5.35545STRECELVER5.35545STRECELVER5.35545STRECELVER5.35545STRECELVER5.35545STRECELVER5.35545STRECELVER3.35545STRECELVER3.35545STRECELVER3.35545STRECELVERST545STRECELVERST545RENCHECKRECELVERST <td> 540 RENCHECK F/FB-111 DUAL INDICATING OIL QUMNIITY 557 CORS AND PACK AVIONICS AND SUPPORT EQUIPMENT FOR 7081117 OPERATIONS 74081117 OPERATIONS 753 RENCHECK F/FB-111 ARC-109 UHF RADIO SET CONTROL LRU'S 753 RENOVE OR RELFUNCTIONS IN F/FB-111 ARC-112 HF RECELVER 78080177 FFS-111 ISA659-2 TAPE READER UNITS 8175 AND PIECE 8181 ALFUNCTIONS IN F/FB-111 ARC-112 HF RECELVER 8181 ALFUNCTIONS IN F/FB-111 ARC-112 HF RECELVER 8181 SOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 818 AND PIECE 818 SOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 818 SOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 818 ISOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 818 ISOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 810 ISOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 811 ALFUNCTIONS IN F/FB-111 ARM-145 811 ALFUNCTIONS IN F/FB-111 ARC-112 HF RADIO SET CONTROLS 811 ISOLATE FALFUNCTIONS IN F/FB-111 ARC-112 HF RADIO SET CONTROLS 811 ISOLATE FALFUNCTIONS IN F/FB-111 ARC-112 HF RADIO SET CONTROLS 811 ISOLATE FALFUNCTIONS IN F/FB-111 ARC-112 HF RADIO SET CONTROLS 811 ISOLATE FALFUNCTIONS IN F/FB-111 ARC-112 HF RADIO SET CONTROLS 811 ISOLATE FALFUNCTIONS IN F/FB-111 ARC-112 HF RADIO SET CONTROLS 811 ISOLATE FALFUNCTIONS IN F/FB-111 ARC-112 HF RADIO SET CONTROLS 811 ISOLATE FALFUNCTIONS IN F/FB-111 ARC-112 HF RADIO SET CONTROLS 812 ISOLATE FALFUNCTIONS IN F/FB-111 ARC-112 HF RADIO SET CONTROLS</td> <th></th> <th></th> <td>BENCHCOKECK F/FB-111 APN-64 TACAN ELECTRICAL EQU</td> <td>3.39</td> <td>11.3</td> <td># • 6 6</td>	 540 RENCHECK F/FB-111 DUAL INDICATING OIL QUMNIITY 557 CORS AND PACK AVIONICS AND SUPPORT EQUIPMENT FOR 7081117 OPERATIONS 74081117 OPERATIONS 753 RENCHECK F/FB-111 ARC-109 UHF RADIO SET CONTROL LRU'S 753 RENOVE OR RELFUNCTIONS IN F/FB-111 ARC-112 HF RECELVER 78080177 FFS-111 ISA659-2 TAPE READER UNITS 8175 AND PIECE 8181 ALFUNCTIONS IN F/FB-111 ARC-112 HF RECELVER 8181 ALFUNCTIONS IN F/FB-111 ARC-112 HF RECELVER 8181 SOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 818 AND PIECE 818 SOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 818 SOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 818 ISOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 818 ISOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 810 ISOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 811 ALFUNCTIONS IN F/FB-111 ARM-145 811 ALFUNCTIONS IN F/FB-111 ARC-112 HF RADIO SET CONTROLS 811 ISOLATE FALFUNCTIONS IN F/FB-111 ARC-112 HF RADIO SET CONTROLS 811 ISOLATE FALFUNCTIONS IN F/FB-111 ARC-112 HF RADIO SET CONTROLS 811 ISOLATE FALFUNCTIONS IN F/FB-111 ARC-112 HF RADIO SET CONTROLS 811 ISOLATE FALFUNCTIONS IN F/FB-111 ARC-112 HF RADIO SET CONTROLS 811 ISOLATE FALFUNCTIONS IN F/FB-111 ARC-112 HF RADIO SET CONTROLS 811 ISOLATE FALFUNCTIONS IN F/FB-111 ARC-112 HF RADIO SET CONTROLS 811 ISOLATE FALFUNCTIONS IN F/FB-111 ARC-112 HF RADIO SET CONTROLS 812 ISOLATE FALFUNCTIONS IN F/FB-111 ARC-112 HF RADIO SET CONTROLS			BENCHCOKECK F/FB-111 APN-64 TACAN ELECTRICAL EQU	3.39	11.3	# • 6 6
10.7.7.CLUT3.3525.427.210.10.10.10.10.27.228. MACHARTIONS10.57.14.127.228. MACHARTIONS18.14.110.27.315.0.4.15.0.4.11.10.10.27.315.0.4.15.0.4.10.10.10.27.315.0.4.15.0.4.10.10.10.27.315.0.4.15.0.4.10.10.10.25.315.0.4.11.12.4.11.10.25.315.0.4.11.12.4.11.10.25.315.0.4.11.12.4.11.10.25.315.0.4.14.11.12.4.10.25.315.0.4.14.11.12.4.10.25.315.0.4.14.11.12.4.10.25.315.0.4.14.11.10.10.25.315.0.4.14.11.10.10.25.315.0.4.14.11.10.10.25.315.0.4.14.11.10.10.25.315.0.4.14.11.10.10.25.315.0.4.14.11.10.10.25.315.0.4.11.10.10.10.25.315.0.4.11.10.10.10.25.315.0.4.15.14.10.10.25.315.0.4.15.14.10.	18. PUERCIONS 19. PUERCIONS 19. PUERATIONS 19. PUERATIONS 19. PUERATIONS 24. BENCHMECK F/F8-111 ARC-109 UHF RADIO SET CONTROL LRU'S 19. ISOLATE ALLUNCTIONS IN F/F8-111 ARC-112 HF RECEIVER 10. PIEGE 11. IZA6559-2 TAPE READER UNITS 25. ISOLATE ALLUNCTIONS IN F/F8-111 ARM-134 TEST SETS 25. ISOLATE ALLUNCTIONS IN F/F8-111 ARM-145 TEST SETS 25. ISOLATE ALLUNCTIONS IN F/F8-111 ARM-145 TEST SETS 25. REAVE OR REPLACE F/F8-111 ARV-100 TEATSIS 26. ITS AND PIECE 27. BENCHMECK F/F8-111 ARV-100 THASSIS 26. REAVE OR REPLACE F/F8-111 ARC-100 UHF RADIO SET CONTROL 27. BENCHMECK F/F8-111 ARC-112 HF RADIO SET CONTROL 27. ISOLATE ALLUNCTIONS IN F/F8-111 ARC-112 HF AND SET CONTROL 28. ISOLATE ALLUNCTIONS IN F/F8-111 ARC-112 HF AND SET CONTROL 29. BENCHMECK F/F8-111 ARC-112 HF RADIO SET CONTROL 29. BENCHMECK F/F8-111 ARC-112 HF RADIO SET CONTROL 20. ISOLATE ALLUNCTIONS IN F/F8-111 ARC-112 HF AND SET CONTROL 20. ISOLATE ALLUNCTIONS IN F/F8-111 ARC-112 HF AND SET CONTROL 20. ISOLATE ALLUNCTIONS IN F/F8-111 ARC-112 HF AND SET CONTROL 20.				3.39	50.7	10.4
242BOUTLITY <td> 242 BENCHMEKE F/FB-111 ARC-109 UHF RADIO SET CONTROL LRU'S 324 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF RECELVER 7 RANSMITTERS TO BIT AND PIECE 9 ISTS ANO PIECE 9 F/FB-111 ISOLASSO-2 TAPE READER UNITS 253 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF RECELVER 7 RANSMITTERS TO SRU OR CHASSIS 9 ISOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 7 SOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 8 DISOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 8 DISOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 9 DISOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 9 DENCHCHECK F/FB-111 APX-76 AAI RADIO SET CONTROLS 9 DENCHCHECK F/FB-111 APX-76 AAI RADIO SET CONTROLS 9 DENCHCHECK F/FB-111 ARM-94 ELECTRICAL 9 DENCHCHECK F/FB-111 ARC-109 UHF RADIO SET CONTROLS 9 DENCHCHECK F/FB-111 ARC-1109 UHF RADIO SET CONTROLS 9 DENCHCHECK F/FB-111 ARC-112 HF RADIO SET CONTROLS 9 DOULP SUPPLIES TO SRU OR CHASSIS </td> <th></th> <th></th> <td></td> <td>3.35</td> <td>25.4</td> <td>3.90</td>	 242 BENCHMEKE F/FB-111 ARC-109 UHF RADIO SET CONTROL LRU'S 324 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF RECELVER 7 RANSMITTERS TO BIT AND PIECE 9 ISTS ANO PIECE 9 F/FB-111 ISOLASSO-2 TAPE READER UNITS 253 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF RECELVER 7 RANSMITTERS TO SRU OR CHASSIS 9 ISOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 7 SOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 8 DISOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 8 DISOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 9 DISOLATE MALFUNCTIONS IN F/FB-111 ARM-134 TEST SETS 9 DENCHCHECK F/FB-111 APX-76 AAI RADIO SET CONTROLS 9 DENCHCHECK F/FB-111 APX-76 AAI RADIO SET CONTROLS 9 DENCHCHECK F/FB-111 ARM-94 ELECTRICAL 9 DENCHCHECK F/FB-111 ARC-109 UHF RADIO SET CONTROLS 9 DENCHCHECK F/FB-111 ARC-1109 UHF RADIO SET CONTROLS 9 DENCHCHECK F/FB-111 ARC-112 HF RADIO SET CONTROLS 9 DOULP SUPPLIES TO SRU OR CHASSIS 				3.35	25.4	3.90
27.8ISOCUTE MALFUNCTIONSIN FURCTIONALINCLUDE CONTINUESINCLUDE CONTINUE	 STA SCHATE MALFUNCTIONS IN FAB-111 ARC-112 HE RECEIVEN STA SCHATE MALFUNCTIONS IN F/B-111 ARC-112 HE RECEIVEN BITS AND PIECE STANSMITTERS TO BIT AND PIECE BITS AND PIECE STANSMITTERS TO BIT AND PIECE BITS AND PIECE STANSMITTERS TO BIT AND PIECE BITS AND PIECE SOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HE RECEIVEN SOLATE MALFUNCTIONS IN F/FB-111 UPM-245 TEST SETS TO SRU OR CHASSIS SOLATE MALFUNCTIONS IN F/FB-111 UPM-245 TEST SETS TO SRU OR CHASSIS SOLATE MALFUNCTIONS IN F/FB-111 UPM-245 TEST SETS TO SRU OR CHASSIS SOLATE MALFUNCTIONS IN F/FB-111 ARC-122 HE RADIO SET CONTROLS SID BENCHCHECK F/FB-111 APX-76 AAI RADIO SET CONTROLS SID BENCHCHECK F/FB-111 ARV-94 ELECTRICAL GUUPHENT MOUNTING BASES TO SRU OR CHASSIS SOLATE RALFUNCTIONS IN F/FB-111 ARV-94 ELECTRICAL SUD REPOUCH OR REPLACE F/FB-111 ARV-94 ELECTRICAL SID BENCHCHECK F/FB-111 ARV-109 UHF RADIO SET CONTROLS SID BENCHCHECK F/FB-111 ARV-109 UHF RADIO SET CONTROLS SUD REPOUCH REPLACE F/FB-111 ARV-109 UHF RADIO SET CONTROLS SUD REPLACE F/FB-111 ARV-109 UHF			POBILITY OPERATIONS Demensions (11) Abening (11) Abening Str	1.16	5 U 7	. 03
573REMOVE OR RELACE FYB-111 MIGH LIFT POSITION MECHANISM3.3532.48BITS AND PIECESTABLE WORTONS IN FYB-111 MIGH LIFT POSITION MECHANISM3.3016.9253ISOLATE MALFUNCTIONS IN FYB-111 ARM-134 TEST SETS3.3015.5253ISOLATE MALFUNCTIONS IN FYB-111 ARM-134 TEST SETS3.3015.5253ISOLATE MALFUNCTIONS IN FYB-111 ARM-134 TEST SETS3.3015.5260TRANSHITTERS TO SRU OR CHASSIS3.303.3015.5260ISOLATE MALFUNCTIONS IN FYB-111 UPM-245 TEST SETS TO SRU3.307.0261SOLATE MALFUNCTIONS IN FYB-111 UPM-245 TEST SETS TO SRU3.307.0261REMOVE OR REPLACE FYFE-111 APX-76 AAI RADIO SET CONTROL3.307.0315AND PIECES3.153.007.0316BUTY AND PIECES3.008.63.30317AND PIECES3.008.73.30318AND PIECES108.08.0317AND PIECES3.03.307.0318AND PIECES108.08.0319BUTHEMT MOUNTING BASES TO SRU OR CHASSIS3.307.032020.610.99.09.5310BUTHEMT MOUNTING BASES TO SRU OR CHASSIS3.307.032020.610.99.510.032020.610.99.510.032020.720.610.910.032020.610.99.020.632020.610.0	 573 REMOVE ON REPLACE FYB-111 MIGH LIFT POSITION MECHANISH 8175 AND PIECES 191 ALIGN FYB-111 12A659-2 TAPE READER UNITS 253 ISOLATE MALFUNCTIONS IN FYB-111 ARM-134 TEST SETS 253 ISOLATE MALFUNCTIONS IN FYB-111 ARM-134 TEST SETS 353 ISOLATE MALFUNCTIONS IN FYB-111 ARM-134 TEST SETS 360 ISOLATE MALFUNCTIONS IN FYB-111 UPM-245 TEST SETS TO SRU 360 ISOLATE MALFUNCTIONS IN FYB-111 UPM-245 TEST SETS TO SRU 360 ISOLATE MALFUNCTIONS IN FYB-111 UPM-245 TEST SETS TO SRU 361 ISOLATE MALFUNCTIONS IN FYB-111 ARC-112 HF RADIO SET CONTROL 313 ISOLATE MALFUNCTIONS IN FYB-111 ARW-84 ELECTFICAL 310 BENCHHEKT FYFB-111 ARW-84 TACAM RADIO SET CONTROL 310 BENCHHEKT FYFB-111 ARC-109 UMF RADIO SET CONTROL 311 BOLTE AND PIECES 303 BENCHHEKT FYFB-111 ARC-112 HF RADIO SET CONTROL 313 ISOLATE MALFUNCTIONS IN FYFB-111 ARC-112 HF RADIO SET CONTROL 314 ISOLATE MALFUNCTIONS IN FYFB-111 ARC-112 HF RADIO SET CONTROL 317 ISOLATE MALFUNCTIONS IN FYFB-111 ARC-112 HF RADIO SET CONTROL 317 ISOLATE MALFUNCTIONS IN FYFB-111 ARC-112 HF RADIO SET CONTROL 317 ISOLATE MALFUNCTIONS IN FYFB-111 ARC-112 HF RADIO SET CONTROL 317 ISOLATE MALFUNCTIONS IN FYFB-111 ARC-112 HF ANDIO SET CONTROL 317 ISOLATE MALFUNCTIONS IN FYFB-111 ARC-112 HF ANDIO SET CONTROL 317 ISOLATE MALFUNCTIONS IN FYFB-111 ARC-112 HF ANDIO SET CONTROL 			SCHOOLSTCH FILE IN FILE WELLEN OF HADING AND	3.35	14.1	10.7
91 SITS AND PTECES91 ALIGN F/F0-111 1206659-2 TAPE READER UNITS92 ALIGN F/F0-111 1206659-2 TAPE READER UNITS92 SIDIATE MALFUNCTIONS IN F/F0-111 ARM-134 TEST SETS92 SIDIATE MALFUNCTIONS IN F/F0-111 ARM-134 TEST SETS92 SIDIATE MALFUNCTIONS IN F/F0-111 ARM-134 TEST SETS92 SOLATE MALFUNCTIONS IN F/F0-111 ARM-134 TEST SETS94 RENOWE OR REPLACE F/F0-111 ARM-134 TEST SETS95 SOLATE MALFUNCTIONS IN F/F0-111 ARM-134 TEST SETS96 REMOVE OR REPLACE F/F0-111 APX-76 AAI RADIO SET CONTROL91 SOLATE MALFUNCTIONS IN F/F0-111 APX-76 AAI RADIO SET CONTROL91 SOLATE MALFUNCTIONS IN F/F0-111 ARW-04 TECT CONTROL91 SOLATE MALFUNCTIONS IN F/F0-111 ARW-04 ELECTFICAL91 SOLATE MALFUNCTIONS IN F/F0-111 ARW-04 ELECTFICAL91 SOLATE MALFUNCTIONS IN F/F0-111 ARW-04 ELECTFICAL91 SOLATE MALFUNCTIONS IN F/F0-111 ARX-76 AAI RADIO SET CONTROL92 SENCHHECK F/F0-111 ARX-76 AAI RADIO SET CONTROL93 SOLATE MALFUNCTIONS IN F/F0-111 ARX-76 AAI RADIO SET CONTROL94 REMOVE OR REPLACE F/F0-111 ARC-109 UMF RADIO SET CONTROL95 SA95 REMOVE OR REPLACE F/F0-111 ARC-109 UMF RADIO SET CONTROL95 SA96 REMOVE OR REPLACE F/F0-111 ARC-109 UMF RADIO SET CONTROL97 DUBITS AND PIECES98 ROCHCHECK F/F0-111 APX-78 RADIO SET CONTROL99 SENCHCHECK F/F0-111 APX-78 RADIO SET CONTROL99 SENCHCHECK F/F0-111 APX-78 RADIO SET CONTROL97 DULT SUPPLIES TO SUU OR CHASSIS98 ROCHCHECK F/F0-111 APX-78 RADIO SET CONTROLS98 ROCHCHECK F/F0-111 APX-78 RADIO SET CONTROLS99 SENCHCHECK F/F0-111 APX-78 RADIO SET CONTROLS99 SENCHCHECK F/F0-111 A	 BITS AND PTECES BITS AND PTECES SOLATE MALFUNCTIONS IN F/F8-111 ARM-134 TEST SETS TRANSMITTERS TO SRU OR CHASSIS TRANSMITTERS TO SRU OR CHASSIS SOLATE MALFUNCTIONS IN F/F8-111 APM-134 TEST SETS TO SRU ISOLATE MALFUNCTIONS IN F/F8-111 APM-134 SETS TO SRU SOLATE MALFUNCTIONS IN F/F8-111 UPM-245 TEST SETS TO SRU SOLATE MALFUNCTIONS IN F/F8-111 APM-245 TEST SETS TO SRU SOLATE MALFUNCTIONS IN F/F8-111 APM-245 TEST SETS TO SRU REMOVE OR REPLACE F/F8-111 APM-76 AAI RADIO SET CONTROL BITS AND PTECES SID BENCHMECK F/F8-111 APM-84 TACAN RADIO SAT CONTROLS SOLATE MALFUNCTIONS IN F/F8-111 ARM-84 ELECTRICAL EQUIPMENT MOUNTING BASES TO SRU OR CHASSIS ZE RULPMENT MOUNTING BASES TO SRU OR CHASSIS ZEMOVE OR REPLACE F/F8-111 ARC-109 UMF RADIO SET CONTROL LUU BITS AND PTECES TROVE OR REPLACE F/F8-111 ARC-112 UPM RADIO SET CONTROL RECUTEMENT FALLUNCTIONS IN F/F8-111 ARC-112 WF RADIO SET CONTROL RECUTEMENT FALLUNCTIONS IN F/F8-111 ARC-112 WF RADIO SET CONTROL RECUTEMENT FALLILLA APM-84 BACON TRANSPONDER RECUTEMENT FALS SOLATE MALFUNCTIONS IN F/F8-111 ARC-112 WF AMPLIFIER SOLATE MALFUNCTIONS IN F/F8-111 ARC-112 WF ANDIO SET CONTROL SOLATE MALFUNCTIONS IN F/F8-111 ARC-112 WF AMPLIFIER SOLATE MALFUNCTIONS IN F/F8-111 ARC-112 WF AMPLIFIER SOLATE MALFUNCTIONS IN F/F8-111 ARC-112 WF AMPLIFIER 			REMOVE OR REPLACE F/F8-111 HIGH	3•35	32.4	4.50
323150.04.0717.0323150.04.07MALFUNCTIONS10.15323150.04.07MALFUNCTIONS10.15323150.04.07MALFUNCTIONS10.15323150.04.07MALFUNCTIONS10.15323150.04.07MALFUNCTIONS10.15323150.04.07MALFUNCTIONS10.15323150.04.07MALFUNCTIONS10.14324150.04.07MALFUNCTIONS10.14325150.04.07MALFUNCTIONS10.1432611.04MALFUNCTIONS10.143270.07CMASSIS3.307.032811.04MALFUNCTIONS11.14317ANDPIECE11.14317ANDPIECE7.0313150.04MALFUNCTIONS10.47314ANDPIECE7.0315150.04MALFUNCTIONS10.70315150.04MALFUNCTIONS10.70315150.04MALFUNCTIONS10.70310150.0710.073.26311150.04MALFUNCTIONS10.70312150.04FAROURACK17.00313150.04MALFUNCTIONS10.70314150.04MALFUNCTIONS10.70315150.04MALFUNCTIONS10.70325160.04MALFUNCTIONS10.70326160.0717.0032717.0010.7132810.7710.77	 SIGNATE MALFUNCTIONS IN F/F8-111 ARM-134 TEST SETS TRANSMITTERS TO SRU OR CMASSIS TRANSMITTERS TO SRU OR CMASSIS TRANSMITTERS TO SRU OR CMASSIS TRANSMITTERS TO SRU OR CMASSIS SOLATE MALFUNCTIONS IN F/F8-111 APM-245 TEST SETS TO SRU OR CMASSIS SERFLACE F/F8-111 APM-76 AAI RADIO SET CONTROL SID BRCHCHECK F/F8-111 APM-84 TACAN RADIO SET CONTROL SID BRCHCHECK F/F8-111 APM-84 TACAN RADIO SET CONTROL SID BRCHCHECK F/F8-111 APM-84 TACAN RADIO SET CONTROL SID SENCHCHECK F/F8-111 APM-84 TACAN RADIO SET CONTROL SUPERCHCHEK F/F8-111 APC-112 HF RADIO SET CONTROL SUPALF SUPPLIES TO SRU OR CMASSIS SOLATE MALFUNCTIONS IN F/F8-111 ARC-112 HF AMPLIFIER POULP SUPPLIES TO SRU OR CMASSIS 				C #	0 91	
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4.66REMOVE OR RELACE F/FE-111 APX-76AAI RADIO SET CONTROL3.307.03175AND PIECESF/FE-111 APX-76AAI RADIO SET CONTROL3.307.0510BENCHHECK F/FB-111 APW-84TACAN RADIO SET CONTROLS3.307.05113ISOLATE MALFUNCTIONS IN F/FB-111 ARW-84ELECTFICAL3.307.0526REMOVE OR REPLACE F/FB-111 ARC-109 UMF RADIO SET CONTROL3.2656.3262REMOVE OR REPLACE F/FB-111 ARC-109 UMF RADIO SET CONTROL3.2616.9279BENCHMECK F/FB-111 ARC-109 UMF RADIO SET CONTROL3.2616.9279RENCHMECK F/FB-111 ARC-109 UMF RADIO SET CONTROL3.2616.9279BENCHMECK F/FB-111 ARC-109 UMF RADIO SET CONTROL3.2616.9279BENCHMECK F/FB-111 APX-78RADE SECON TRANSPONDER3.2619.9279BENCHMECK F/FB-111 APX-718 RADIO SET CONTROL3.2619.9770RENCHMECK F/FB-111 APX-78AMPLIFIER3.2619.9771ISOLATE MALEUNCTIONS TH F/FB-112 ARC-112 MF AMPLIFIER3.2619.7771ISOLATE MALEUNCTIONS TH F/FB-112 ARC-112 MF AMPLIFIER3.2619.7771SOLATE MALEUNCTIONS TH F/FB-111 ARC-112 MF AMPLIFIER3.2619.7771ISOLATE MALEUNCTIONS TH F/FB-112 ARC-112 RF AMPLIFIER3.2619.7771ISOLATE MALEUNCTIONS TH F/FB-112 ARC-112 RF AMPLIFIER3.2619.7771ISOLATE MALEUNCTIONS TH F/FB-112 ARC-112 RF AMPLIFIER3.2619.7772ISOLATE MALEURCTIONS TH F/FB-112 ARC-112 RF AMPLIFIER	 466 REMOVE OR REPLACE F/FE-111 APX-76 AAI RADIO SET CONTROL 3175 AND PIECE F/FE-111 APX-94 TACAN RADIO SET CONTROLS 510 BENCHCHECK F/FB-111 APX-94 TACAN RADIO SET CONTROLS 511 BENCHCHECK F/FB-111 ARC-109 UMF RADIO SET CONTROL 262 REMOVE OR REPLACE F/FB-111 ARC-109 UMF RADIO SET CONTROL 262 REMOVE OR REPLACE F/FB-111 ARC-109 UMF RADIO SET CONTROL 262 REMOVE OR REPLACE F/FB-111 ARC-109 UMF RADIO SET CONTROL 263 REMOVE OR REPLACE F/FB-111 ARC-109 UMF RADIO SET CONTROL 264 REMOVE OR REPLACE F/FB-111 ARC-112 UM RADIO SET CONTROL 299 BENCHCMECK F/FB-111 APX-78 RADIO SET CONTROLS 303 BENCHCMECK F/FB-111 APX-112 MF RADIO SET CONTROLS 317 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 MF AMPLIFIER 317 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 MF AMPLIFIER 			INAMANITIERS TO SHO ON UMASSIS Isolate malfunctions in F/FB-111 Do current	3.30	6.9	5.55
\$10BENCHCHECK F/B-111ARW-84TACAN RADIO SLT CONTROLS3.3029.6\$13ISOLATE MALFUNCTIONSIN F/F8-111ARW-84ELECTRICAL3.307.0\$26REPURPHENT MOUNTINGBASES TO SRU OR CHASSIS3.307.07.0\$26Renove or Replace F/F8-111ARC-109UHF RADIO SET CONTROL3.2656.3\$27RUTSAND PIECES56.310.99.6\$29BENCHCHECK F/F6-111APC-70UHF RADIO SET CONTROL3.2610.9\$29BENCHCHECK F/F6-111APC-712HF RADIO SET CONTROL3.2610.7\$29BENCHCHECK F/F6-111APC-112HF RADIO SET CONTROL3.2610.7\$20BENCHCHECK F/F6-111APC-112HF RADIO SET CONTROLS3.2610.7\$21ISOLATE MALFUNCTIONSIN F/F6-111APC-112HF AMPLIFIER3.2610.7\$21FOULRSUPPLIESTO SRU OR CHASSIS3.2610.77	 \$10 BENCHCHECK F/FB-111 ARN-84 TACAN RADIO SET CONTROLS \$13 ISOLATE MALFUNCTIONS IN F/FB-111 ARN-84 ELECTRICAL EQUIPHENT MOUNTING BASES TO SRU OR CHASSIS EQUIPHENT MOUNTING BASES TO SRU OR CHASSIS 26 RENUE OR REPLACE F/FB-111 ARC-109 UHF RADIO SET CONTROL 279 BENCHCHECK F/FB-111 ARC-109 UHF RADIO SET CONTROL 299 BENCHCHECK F/FB-111 ARC-109 UHF RADIO SET CONTROL 317 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF AMPLIFIER 317 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF AMPLIFIER 				3.30	7.0	£ ° 9 £
EQUIPMENT PROUNTING BASES TO SRU OR CHASES EQUIPMENT POUNTING BASES TO SRU OR CHASES 262 RENOVE OR REPLACE F/B-111 ARC-109 UNF RADIO SET CONTROL 3.26 56.3 LRU BITS AND PIECES 299 BENCHMECK F/FB-111 APX-78 RADAR BEACON TRANSPONDER 3.26 16.9 RECEIVENT TRANSMITTERS 303 BENCHMECK F/FB-111 APC-112 MF RADIO SET CONTROLS 317 ISOLATE MALFUNCTIONS TN F/FB-112 MF AMPLIFIER 3.26 19.7 PONLR SUPPLIES TO SRU OR CHASEIS	242 BENERAT PARTAGE AND AN FIGULAR CLUTTER EQUIPMENT POUNTING BASES TO SRU OR CHASSIS 242 RENOVE OR REPLACE FEB-111 ARC-109 UNF RADIO SET CONTROL 1RU BITS AND PIECES 299 BENCHCMECK F/FB-111 APX-78 RADAR BEACON TRANSPONDER 299 BENCHCMECK F/FB-111 APX-112 HF RADIO SET CONTROLS 303 BENCHCMECK F/FB-111 ANC-112 HF RADIO SET CONTROLS 317 ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF AMPLIFIER POULP SUPPLIES TO SRU OR CHASSIS			•	3.30	29.6	4°50
262 REMOVE OR REPLACE F/FB-III ARC-IO9 UHF RADIO SET CONTROL 3.26 56.3 LRU BITS AND PIECES 3.26 10.9 299 BENCHMECK F/FB-III APX-78 RADAR BEACON TRANSPONDER 3.26 16.9 RECELVER TRANSMITTERS 19.7 303 BENCHMECK F/FB-III APC-112 HF RADIO SET CONTROLS 3.26 19.7 317 ISOLATE MALFUNCTIONS IN F/FB-III ARC-I12 HF AMPLIFIER 3.26 16.9 POWLR SUPPLIES TO SRU OR CHASSIS	262 REMOVE OR REPLACE F/FB-III ARC-IO9 UHF RADIO SET CONTROL LRU BITS AND PIECES 29 BENCHCHECK F/FB-III APX-78 RADAR BEACON TRANSPONDER Receiver transmitters 303 BENCHCHECK F/FB-III ANC-II2 HF RADIO SET CONTROLS 317 ISOLATE MALFUNCTIONS IN F/FB-III ARC-II2 HF AMPLIFIER PONLP SUPPLIES TO SRU OR CHASSIS			EQUIPMENT MOUNTING BASES TO SRU	De • c	0	CT • 1
299 BENCHCHECK F/FB-111 APX-78 RADAR BEACON TRANSPONDER 3.26 16.9 RECEIVEN TRANSMITTERS 303 BENCHCHECK F/FB-111 APC-112 HF RADIO SET CONTROLS 3.26 19.7 317 ISOLATE MALFUNCTIONS IN F/FB-112 HF AMPLIFIER 3.26 16.9 POWLR SUPPLIES TO SRU OR CHASSIS	 299 BENCHCHECK F/FB-III APX-78 RADAR BEACON TRANSPONDER RECEIVEN TRANSMITTERS 303 BENCHCHECK F/FB-III APC-112 HF RADIO SET CONTROLS 317 ISOLATE MALFUNCTIONS IN F/FB-III ARC-112 HF AMPLIFIER POWLP SUPPLIES TO SPU OR CHASSIS 			REMOVE OR REPLACE F/FB-111 ARC-109 UHF RADIO I DU ATTS AMD PIEFES	3.26	56.3	4.98
303 BENCHEEK F/FB-III APC-112 HF RADIO SET CONTROLS 3.26 19.7 317 ISOLATE MALFUNCTIONS [N F/FB-III ARC-112 HF AMPLIFIER 3.26 16.9 Pouer Supplies to Sru or chassis	303 BENCHMERT FYEB-11 APC-112 HF RADIO SET CONTPOLS 317 ISOLATE MALFUNCTIONS TN FYEB-111 ARC-112 HF AMPLIFIER Power Supplies to Sru or Chassis			6	3.26	16.9	* 6 * *
ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 HF AMPLIFIER 3.26 16.9 Power Supplies to Sru or chassis	ISOLATE MALEUMCTIONS IN F/F8-111 ARC-112 HF AMPLIFIER Power Supplies to SRU or Chassis			DENCHECK F/F6-111 APC-112 HF RADIO SET	3.26	19.7	
				ISOLATE MALFUNCTIONS IN F/FB-111 ARC-112 Power Supplies to Sru or CMASSIS	3.26	16.9	f.00

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POI JABRJ2635A MATCHED WITH SURVEY DATA

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-	9			7.E	157	1.0
,	0	T SK	111165	40¥	(W)	X5A (F)
-		319 15	isolate malfunctions in f/fb-111 arc-112 mf mounts to	3.26	12.7	4 . B.C
•			CHASSIS			
-			MEMUTE UN KEPLAGE F/FB-ILL AFX-18 KADAK BEACUM Transponder system receiver transmitter sru's	9740	10.1	
	9	511 80	DE MCHCMECK F/FB-111 ARN-34 TACAN SERIAL TO PARALLEL Fondestes	3,26	16.9	4.61
•	-	310 15	SCULTE MALFUNCTIONS IN F/FB-111 ARC-112 HF AMPLIFIER	3.22	1+-1	5.70
•		321 15	TOUCH SUFFLIES TO BIT AND FICK Isolate Malfunctions in F/F8-111 ArC-112 MF Radio SET Fourdance to and and suffer	3.22	16.9	5.82
	2	465 IS	CUMITOLS TO STU ON LAASSIS Solate malfunctions in \$/fb-111 apx-76 aai receiver Isburghttes. To bit all picfe	3.22	5.6	7.73
	2	*79 IS	CTIONS	3.22	6.9	5.46
ų	a		BIT AND PIECE Demonderk Exeants enset age filet inditators	1. 33	5.03	
		-	ALIGN F/FB-111 APX-78 RADAR BEACON TRANSPONDER RECEIVER	3.17	15.5	5.19
-		322 IS	IRAMSMITTERS Isolate malfunctions in f/fb-111 arc-112 hf radio set	3.17	15.5	5.66
,			CONTROLS TO BIT AND PIECE			
	2	467 15	ISOLATE MALFUNCTIONS IN F/FB-111 APX-76 AAI SWITCM Ambittips to spi op chassis	3.17	5.6	6.58
•	z	490 RE	REMOVE OR REPLACE F/FB-111 APX-76 AAI SWITCH AMPLIFIER	3.17	8.5	4.97
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•			MERUTE UN MEPERCE F/FB-111 AFA+10 AA1 STNEMKUNLEN SKU'S 211455 eieb-111 abu-at tiety sediai to badiliei			
		-				7497
J	6	-	ALIGN F/FB-111 FUSELAGE FUEL INDICATORS	3.17	25.4	4.47
		547 85	DENCHCHECK F/FB-111 LIQUID OXYGEN QUANTITY INDICATORS	3.17	29.6 36.6	4 °05
•					0.02	
•			SET UP AVIONICS AND SUPPORT EQUIPMENT AT MOBILITY	3.13	15.5	5.23
				•		
-			BENCHECMECK F/FB-111 APX-78 RADAR BEACON TRANSPONDER Radio set controls	5.15	c•c1	-12
ų	z	1694 15	ISOLATE MALFUNCTIONS IN F/FB-111 APX-76 AAI SYNCHRONIZERS to sou of functions	3.13	5.6	6.10
•	9	189 SE	SET UP AVIONICS AND SUPPORT EQUIPMENT FOR NORMAL	3.09	19.7	4.72
	Ĩ	203 IS	OPERATION AFTER MOBILITY OPERATIONS Isolate Malfumctions in f/fraiii 1246659-2 Tape reader	3.09	11.5	5.47
•						•
		_	DENCHCHECK F/FB-111 APC-112 HF MOUNTS	3.09	14.1	54.4
-		31 #16	ISOLATE MALFUNCTIONS IN F/F8-111 APX-78 RADAR BEACON TBANEDONDED DEFEIVED IDAMENIITEDE IN EDU OD FUASSIE	3.09	1 • • 1	5.92
	<u>د</u>	316 15	ISOLATE MALFUNCTIONS IN F/FB-111 APX-78 RADAR BEACON	3,09	11.3	# *64
-						
	2 2	386 AL 455 AL	ALIGN F/FR-III TEPRAIN FOLLOUING RADAR (TFR) TEST SETS Benememeter f/fr-iii adx-74 aat suttem amditeteds	3.09		5 8 9 5 8 9
				3.09	0.1	5.62
•					•	

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AFS 326X5B

Analysis of First Enlistment Personnel. Tasks performed by the greatest percentages of 326X5B first enlistment incumbents are presented on Table 24. Generally, these most common tasks involve benchchecking or troubleshooting F-15 indicators and controls assigned to the AN/GSM-229 test station or maintaining AN/GSM-228 Antenna A and B test stations and assigned LRUs. Since 87 percent of the first enlistment respondents grouped into one job type (GRP061), the functions performed by these incumbents are stable regardless of their duty location. In addition to an analysis of tasks performed, the various pieces of Avionics AGE test equipment or test equipment groups and specialized tools utilized by first enlistment AFS 326X5B personnel were Three test stations, AN/GSM-228, AN/GSM-229, and AN/GSM-230 examined. are all utilized by 96 percent or more of the first-termers (see Table 25). Each of these test stations are utilized in the resident technical training course. Table 26 reveals that 22 pieces of special equipment or tools are utilized by 30 percent or more of the first enlistment personnel, many of which are also common to AFS 326X5A first term respondents. Items, such as compressed gas bottles, pressure regulators, RF crystal detectors, environmental chambers and pressure test sets for LRUs, are however, more applicable to the 326X5B specialty incumbents. Overall, 326X5B first enlistment personnel perform primarily a test station operator function, benchchecking components, with very little variation in the type of job available for them to perform.

<u>Analysis of Training Emphasis and Task Difficulty</u>. Forty-six senior NCOs assigned to F-15 integrated avionics manual test station shops rated the relative training emphasis or task difficulty of each F-15 task in the inventory. These ratings were then compiled to produce an ordered listing of all tasks in terms of their recommended emphasis in training for first enlistment AFS 326X5B personnel and their task difficulty. For a more complete description of these ratings, see the Task Factor Administration subsection in the SURVEY METHODOLOGY section of this report.

All the tasks in the inventory concerning maintenance of the F-15 AN/GSM-228 Antenna A or B test stations, and the F-15 AN/GSM-230 test station, and assigned LRUs were rated above average in training emphasis. As seen on Table 27, the tasks related to Antenna A and B test stations have the highest ratings. Tasks related to maintaining F-15 Indicators and Controls assigned to the An/GSM-229 test station were rated average in training emphasis.

As with the training emphasis, technical equipment specific tasks were rated most difficult. For AFS 326X5B incumbents the most difficult tasks revolve around the maintenance of generator control units, integrated communications control panels, radar systems, APX-76, ARC-109 UHF, or APX-101 radio-receiver transmitters, ILS test sets, or AN/GSM-228 test stations. Tasks rated high in difficulty but not performed by 30 percent or more of the specialty were primarily training, and supervisory or managerial in nature, and rated low in training emphasis. This includes functions, such as preparing APR's, preparing CDCs, preparing lesson plans, evaluating or determining budget or financial plans, and developing inputs to mobility plans. Many of the supervisory or managerial tasks were also rated average in task difficulty. Technical tasks rated average in difficulty centered on

60

TASKS MOST COMMONLY PERFORMED BY FIRST ENLISTMENT 326X5B PERSONNEL

		PERCENT MEMBERS PERFORMING
TASK		<u>(N=75)</u>
H197	INSTALL CAPS, PLUGS, OR DUST COVERS ON TEST STATIONS, TEST	
	EQUIPMENT, OR LRUS	93
*R649	• •	91 91
	BENCHCHECK F-15 RADAR SYSTEM ANTENNAS	91
NOOF	NTCHATTY THODROW AND CTRAN TON-	00
*R648	BENCHCHECK F-15 RADAR SYSTEM LOW VOLTAGE POWER SUPPLIES VISUALLY INSPECT AND CLEAN TEST STATIONS BENCHCHECK F-15 MAIN COMMUNICATIONS CONTROL PANELS BENCHCHECK F-15 FUEL QUANTITY INDICATORS PERFORM CONFIDENCE CHECKS OF TEST STATIONS	91
H226	VISUALLY INSPECT AND CLEAN TEST STATIONS	91
T721	BENCHCHECK F-15 MAIN COMMUNICATIONS CONTROL PANELS	91
T712	BENCHCHECK F-15 MAIN COMMUNICATIONS CONTROL PANELS BENCHCHECK F-15 FUEL QUANTITY INDICATORS PERFORM CONFIDENCE CHECKS OF TEST STATIONS BENCHCHECK F-15 INTEGRATED COMMUNICATIONS CONTROL PANELS ADJUST F-15 CONTROLLER AIRCRAFT GRIP ASSEMBLIES BENCHCHECK F-15 GENERATOR CONTROL UNITS	92
*H204	PERFORM CONFIDENCE CHECKS OF TEST STATIONS	92
* T715	BENCHCHECK F-15 INTEGRATED COMMUNICATIONS CONTROL PANELS	89
T692	ADJUST F-15 CONTROLLER AIRCRAFT GRIP ASSEMBLIES	89
	BENCHCHECK F-15 GENERATOR CONTROL UNITS	89
	BENCHCHECK F-15 CAUTION LIGHT LOGIC UNITS	89
*S679	BENCHCHECK F-15 ILS TEST SETS	91
T704	BENCHCHECK F-15 ILS TEST SETS BENCHCHECK F-15 CAUTION LIGHT DISPLAY UNITS ISOLATE MALFUNCTIONS IN F-15 RADAR SYSTEM TRANSMITTERS ISOLATE MALFUNCTIONS IN F-15 RADAR SYSTEM ANTENNAS	89
*R65 3	ISOLATE MALFUNCTIONS IN F-15 RADAR SYSTEM TRANSMITTERS	88
*R6 51	ISOLATE MALFUNCTIONS IN F-15 RADAR SYSTEM ANTENNAS	88
*****	RENCHCHECK E-15 MOTION PICTURE CAMEDAS	88
*T749	ISOLATE MALFUNCTIONS IN F-15 MOTION PICTURE CAMERAS ISOLATE MALFUNCTIONS IN F-15 INTEGRATED COMMUNICATIONS	88
* T 746	ISOLATE MALFUNCTIONS IN F-15 INTEGRATED COMMUNICATIONS	
	CONTROL PANELS	88
*H208	PERFORM PERIODIC INSPECTIONS OF TEST STATIONS	88
* R6 52	ISOLATE MALFUNCTIONS IN F-15 RADAR SYSTEM LOW VOLTAGE	
	POWER SUPPLIES	88
	ALIGN F-15 RADAR SYSTEM ANTENNAS	87
* T 714	BENCHCHECK F-15 IDENTIFICATION FRIEND-OR-FOE (IFF) CONTROL	
	PANELS	87
T745	ISOLATE MALFUNCTIONS IN F-15 IFF CONTROL PANELS	87
*R6 57	SERVICE F-15 AN/GSM-228 TEST STATION HYDRAULIC POWER	
	SUPPLIES	87
*646	ASSEMBLE OR DISASSEMBLE F-15 RADAR SYSTEM ANTENNAS	85
*T694	PANELS ISOLATE MALFUNCTIONS IN F-15 IFF CONTROL PANELS SERVICE F-15 AN/GSM-228 TEST STATION HYDRAULIC POWER SUPPLIES ASSEMBLE OR DISASSEMBLE F-15 RADAR SYSTEM ANTENNAS ALIGN F-15 INTEGRATED COMMUNICATIONS CONTROL PANELS BENCHCHECK F-15 CONTROLLER AIRCRAFT GRIP ASSEMBLIES ISOLATE MALFUNCTIONS IN F-15 CAUTION LIGHT LOGIC UNITS BENCHCHECK F-15 BUILT-IN-TEST CONTROL/DISPLAY PANELS	85
T/0/	BENCHUNEUR F-15 CUNTRULLER AIRCRAFT GRIP ASSEMBLIES	85
*T/41	ISULATE MALFUNCTIONS IN F-15 CAUTION LIGHT LOGIC UNITS	85
1/02	BENCHCHECK F-15 BUILT-IN-TEST CONTROL/DISPLAY PANELS SERVICE F-15 AN/GSM-228 TEST STATION FLUSH AND FILL UNITS	85 87
0007~	JERVICE F-15 AN/USH-220 IEST STATION FLUSH AND FILL UNITS	5/

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***TASKS ALSO RATED HIGH IN TRAINING EMPHASIS BY F-15 RATERS**

AVIONICS AGE TEST STATIONS OR TEST EQUIPMENT GROUPS UTILIZED BY AFS 326X5B FIRST ENLISTMENT PERSONNEL (30 PERCENT OR MORE UTILIZING)

EQUIPMENT	PERCENT FIRST ENLISTMENT MEMBERS USING
*COMMUNICATIONS, NAVIGATION, AND IDENTIFICATION TEST STATIONS	
(AN/GSM-230)	97
*INDICATORS AND CONTROLS TEST STATIONS (AN/GSM-229)	97
*ANTENNA A OR B TEST STATIONS (AN/GSM-228)	96
*RADAR TEST SETS AN/UPM-137	87
*INSTRUMENT LANDING SYSTEM (ILS) TEST SETS	85
EMERGENCY RADIO TEST EQUIPMENT GROUPS (AN/URM-95A	65
*IDENTIFICATION FRIEND-OR-FOE (IFF) MODE IV COMPUTER TEST	
EQUIPMENT GROUP (KIR/KIT)	53

*USED IN 3ABR32635B COURSE

TABLE 26

SPECIAL TOOLS OR EQUIPMENT UTILIZED BY AFS 326X5B FIRST ENLISTMENT PERSONNEL (30 PERCENT OR MORE UTILIZING)

EQUIPMENT	PERCENT FIRST ENLISTMENT MEMBERS USING
MULTIMETERS (PSM-6, 410C, MULTIMETERS)	97
SOLDERING OR DESOLDERING TOOLS	95
OSCILLOSCOPES	92
SPECTRUM ANALYZERS	88
CONNECTOR REPAIR KITS	88
COMPRESSED GAS BOTTLES	88
TORQUE WRENCHES OR TORQUE SCREWDRIVERS	87
SIGNAL GENERATORS	85
RF VARIABLE ATTENUATORS	79
TIRE PUMPS AND GAUGES	77
DUMMY LOADS	71
POWER MEASURING DEVICES	71
RF POWER AMPLIFIERS	69
PULSE GENERATORS	69
RF MULTIMETERS	67
PRESSURE REGULATORS	67
RF CRYSTAL DETECTORS	67
FREQUENCY MEASURING DEVICES (OFF-EQUIPMENT)	51
ENVIRONMENTAL CHAMBERS	37
PRESSURE TEST SETS FOR LRUS	33
PHASE SENSITIVE VOLTMETERS (PSVM/PVM)	33
DIFFERENTIAL VOLTMETERS	31

TASKS RATED HIGHEST IN TRAINING EMPHASIS FOR AFS 326X5B FIRST ENLISTMENT PERSONNEL

TASK		TRAINING* EMPHASIS	PERCENT FIRST-TERMERS PERFORMING	TASK** DIFFICULTY
R65 1	ISOLATE MALFUNCTIONS IN F-15 RADAR SYSTEM ANTENNAS	7.1	88	6 5
R653		/.1	00	6.5
KOJJ	TRANSMITTERS	7.1	88	6.5
R647		7.0	91	6.0
R649		7.0	91 91	6.1
E124		7.0	91	0.1
6124	RECORD FORMS (AFTO FORM 349)	6.7	65	4.9
R645	ALIGN F-15 RADAR SYSTEM TRANSMITTERS	6.7	84	6.0
	ALIGN F-15 RADAR SISTEM ANTENNAS	6.6	87	6.0
R646		0.0	07	0.0
NV4V	ANTENNAS	6.6	85	7.5
R650		6.5	83	6.6
R654	•	0.5	05	0.0
1034	AND CONDITIONING UNITS WITH REFRIGERATION	6.4	72	7.3
R652		0.4	/ 2	1.5
	LOW VOLTAGE POWER SUPPLIES	6.4	88	5.3
S669		0.4	00	5.5
	TRANSMITTERS	6.3	81	5.9
R648		0.5	0.	5.5
	POWER SUPPLIES	6.3	91	5.2
S682		0.5	<i>.</i>	5.2
	RECEIVER TRANSMITTERS	6.2	81	6.5
R655			••	0.15
	AND CONDITIONING UNITS WITH COOLANT OIL	6.1	85	5.0
R656		•••		5.0
	AND FILL UNITS	6.1	81	5.4
F166		6.0	77	6.7
S659		6.0	79	6.7
R657				•••
	HYDRAULIC POWER SUPPLIES	6.0	87	5.2
H204		5.9	92	4.2

*AVERAGE T.E. RATING = 1.3 (S.D. = 2.6) **AVERAGE T.D. RATING = 5.0 (S.D. = 1.0) maintenance of the AN/GSM-230 test station and assigned LRUs, while general maintenance, and many of the indicators and controls assigned to the AN/GSM-229 test station were low in task difficulty.

<u>Specialty Training Standard Analysis</u>. Items in the April 1979 STS were compared to survey data. Like the 326X5A STS, the 326X5B STS is also organized around specific Avionics AGE test equipment utilized by shred incumbents. All equipment responded to by AFS 326X5B personnel in the occupational survey are included in the STS. Inventory tasks not referenced to the STS were general in nature or related to supply functions. Almost all equipment specific tasks were referenced to the STS, indicating the STS portrays an accurate picture of the types of equipment and related tasks F-15 Manual Test station shop personnel perform.

<u>Plan of Instruction (POI) Analysis</u>. The 326X5B POI, dated April 1980, for the 95 day Integrated Avionics Manual Test Station and Component Specialist Course taught at Lowry AFB, Colo., was also reviewed against the survey data. The POI contains the qualitative requirements for course 3ABR32635B, in terms of criterion objectives for each unit of instruction, and shows time, training standard correlation, support materials, and lesson plans. Topics covered in the course include electronics principles; F-15 Integrated Avionics Maintenance; Communication, Navigation and Identification (CNI) Test Station and LRU Theory; Indicators and Controls (I & C) Test Station and LRU Theory; I & C and CNI Shop; Antenna A and B test stations and LRU Theory; with an Intermediate Avionics Shop Practical. Each of the items of equipment are utilized by over 50 percent of the first enlistment respondents. These data suggest that the POI is very accurate in training the basic requirements needed for AFS 326X5B personnel.

Several tasks were, however, performed by at least 30 percent of the first enlistment respondents and rated high in training emphasis, but not annotated to the POI (see Table 28). Many of these tasks relate to UHF Radios (ARC-109 or ARC-164), TACAN (ARN-118) systems, and general LRU maintenance or forms annotation. The tasks listed as not referenced should be reviewed by training personnel to determine their relevancy in training.

TABLE 28

TASKS NOT REFERENCED TO POI 3ABR326258

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57 SERVER TANALLS FOR SAFT NUMBERS SUPPLIES S		SERVICE F-15 AN/65M-228 TEST STATION FLUSH AND FILL UNIT	6 U O	86.7
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 ZZZ MERVUE ON PEPLACL TEST STATION CARLE ASSLMELY FINS OR 5.61 HARUNARE SISTUFTCANT HISTORICAL CATA FORMS (AFTO 5.56 LIB ANNOTATE SYSTEM/EQUIPMENT STATUS FECOPD FORMS 5.56 LIB ANNOTATE SYSTEM/EQUIPMENT STATUS OF TEST STATIONS 5.56 ZDB PEMPORM PERIODIC INSPECTIONS OF TEST STATIONS 5.56 SOLATE MALEUNCTIONS IN F-15 ILS TEST SET LRU'S TO 5.17 SOLATE MALEUNCTIONS IN F-15 ARC-109 UHF RADIO RECEIVERS 5.01 SOLATE MALEUNCTIONS IN F-15 ARC-109 UHF RADIO SYSTEMS TO 5.00 SOLATE MALEUNCTIONS IN F-15 ARC-109 UHF RADIO SYSTEMS TO 5.00 SOLATE MALEUNCTIONS IN F-15 ARC-109 UHF RADIO SYSTEMS TO 5.00 SOLATE MALEUNCTIONS IN F-15 ARC-109 UHF RADIO SYSTEMS TO 5.00 SOLOR CANSSIS SOLOR CANSSIS SOLOR CANSSIS SOLOR CANSSIS SOLATE MALEUNCTIONS IN F-15 ARC-109 UHF RADIO SYSTEMS TO 5.00 SOLOR CANSSIS SOLOR CANNALTER FLACHARCE TRANSMITTERS SOLOR CANNALLY PALAULAR COLOR FORM CANSSIS SOLOR CANNALLY PALAULAR COLOR FORM CANSSIS SOLOR CANNALLY PALAULAR COLOR FORM CANSSIS SOLOR CANALLAR CANCHARCE TRANSMITTERS SOLAR CANDIARE SAN		RESEARCH MICPOFICHE FOR PART INFORMATION	5.78	81.3
136 AWNDATE STANFFLANT HISTORICAL CATA FORMS (AFTO 5.56 130 MOTATE SYSTEMFEDURPHENT STATUS RECORD FORMS 5.56 206 DEFETOR ERTOR FORMS IN FUENCIALS 5.51 201 TAND FORM STATUS RECORD FORMS 5.55 201 TAND FORM STATUS RECORD FORMS 5.526 201 TAND FORM STATUS RECORD FORMS 5.17 201 TAND FORM STATUS RECORD FORMS 5.17 201 TAND FORM STATUS RECORD FORM STATUS 5.26 201 TAND FORM STATUS RECORD FORM STATUS 5.26 201 CLAUS STEED FORM SUPPLY TAND THOMETIONS IN F-15 ARC-109 UHF RADIO RECEIVERS 5.01 301 DETORTER MELOWETIONS IN F-15 ARC-109 UHF RADIO SYSTEMS TO 5.00 302 DETORTER MELOWETIONS IN F-15 ARC-104 UHF RADIO SYSTEMS TO 5.00 303 DEMONSTATE HOMETIONS IN F-15 ARC-104 UHF RADIO SYSTEMS TO 5.00 304 SAMOTICE SUPPLY CONTROL LOS FORM STATUS 5.00 5.00 304 SAMOTICE SUPPLY CONTROL LOS FORM STATUS 5.00 5.00 304 SAMOTICE SUPPLY CONTROL LOS FORM STATUS 5.00 5.00 304		REMOVE OR PEPLACE TEST STATION CARLE ASSLMELY PINS Marguare	5.61	73.3
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<pre>164 PREPARE MATERIAL DEFICTENCY REPORTS 192 BENCHCHECK EVERGENCY REPORTS 192 BENCHCHECK EVERGENCY PADIOS 209 PERFORM GUALITY ASSURPINE 209 PERFORM GUALITY ASSURPINE 200 PERFORM GUALITY ASSURPINE 200 FERFORM GUALITY ASSURPTICE (10) 00 LAU'S 200 FERFORM GUALITY ASSURPTICE (10) 00 LAU'S 200 FERFORM GUALITY ASSURPTICE (10) 00 LAU'S 200 FERFORM GUALITY STATIONS, TEST EQUIPMENT, 00 LAU'S 40,56 200 FERFORE F-IS ILS TEST SET BITS AND PIECES 40,56 210 REMOVE 00 REPLACE F-IS ILS TEST SET BITS AND PIECES 40,56 210 REMOVE 00 REPLACE F-IS LASSIS MOUNTED LAU COMPONENTS, 40,46 210 REMOVE 00 REPLACE F-IS CLASSIS MOUNTED LAU COMPONENTS, 40,46 40,46 210 REMOVE 00 REPLACE F-IS CLASSIS MOUNTED LAU COMPONENTS, 40,46 40,46 40,56 210 REMOVE 00 REPLACE F-IS CLASSIS MOUNTED LAU COMPONENTS, 40,56 40,56 210 REMOVE 00 REPLACE F-IS CLASSIS MOUNTED LAU COMPONENTS, 40,56 210 REMOVE 00 REPLACE F-IS CLASSIS MOUNTED LAU COMPONENTS, 40,56 40,56 210 REMOVE 00 REPLACE F-IS CLASSIS MOUNTED LAU COMPONENTS, 40,56 40,56 40,55</pre>		AVNOTATE SERVICEARLY TAG-MATERIE FOLMS IND FORM		
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 160 ORCER PARTS BY TELEPHONE 209 PERFORM GUALITY ASSUBPACE (RA) OR EUALITY CONTROL (OC) 4.56 218 REPOVE OR REPLACE FIST STATIONS, TEST EQUIPMENT, OR LRU'S 4.56 591 REPOVE OR REPLACE FIST RU SRU'S 4.56 516 REPOVE OR REPLACE FIST RU SRU'S 516 REPOVE OR REPLACE FIST RU SRU'S 516 REPOVE OR REPLACE FIST RU SRU'S 517100 AND COMPONENT SPECIALISTS (FIST)AFSC 3263581 			4.61	69
 CUP PERFORM CUALITY ASSUBPACE (CA) OR LUALITY CONTROL (OC) UNSPECTIONS OF TEST STATIONS, TEST EQUIPHENT, OK LRU'S A.56 A.218 REPOVE OR REPLACE F-15 TRUSKU'S A.91 REPOVE OR REPLACE F-15 TLASSIS HOUNTED LKU COMPONENTS, A.56 A.60 REOVE OR REPLACE F-15 CHASSIS HOUNTED LKU COMPONENTS, A.46 A.710 NAD COMPONENT SPECIALISTS (F-15)IAFSC 3263581 			4.56	81.3
215 REMOVE OR REPLACE FIEST STATIONS, TEST EQUIPMENT, OF LRU'S 215 REMOVE OR REPLACE FIEST RU SKU'S ET BITS AND PIECES 691 REMOVE OR REPLACE FIEST LS TEST BITS AND PIECES 216 REMOVE OR REPLACE FIES CHASSIS MOUNTED LHU COMPONENTS, 9. SUCH AS FIESES, CIRCUIT BREAKERS, OR TRANSFISHERS 9. SUPERVISE APPRIVITICE IMTEGRATED AVIONICS MANUEL TEST 9. STATION AND COMPONENT SPECIALISTS (F-15) (AFSC 3285281) 9. STATION AND COMPONENT SPECIALISTS (F-15) (AFSC 3285281)		PERFORM GUALITY ASSURPRCE (DA) OR GUALITY CONTROL (0C)	4.56	46.7
 691 REMOVE OR REPLACE FILS INCURVES SET BITS AND PIECES 891 REMOVE OR REPLACE FILS ILS ILS SET BITS AND PIECES 802 REMOVE OR REPLACE FILS CHASSIS MOUNTED LAU COMPONENTS, 802 RIPSES CIRCUIT BRLANERS, OR TRANSPORMERS 812 REMOVE AS PPREVITEC INTEGRATED ANIONICES MANUEL TEST 813 RION AND COMPONENT SPECIALISTS (F-15) (AFSC 326358) 		INSPECTADAS OF TEST STATIONS, TEST EQUIPMENT, OF LRUS Remove or replace full ton sums	79	(, , ,
 ZIG REMOVE OR REPLACE FILS ALS FOUNTED IN TACKS ZIG REMOVE OR REPLACE FILS CHASSIS MOUNTED LA COMPONENTS, QUELA S FUSES, CIRCUIT DRLANENS, ON TRANSFICHERS QUELA S FUSES, CIRCUIT INTEGRATED AUIONICS MANUAL TEST QUELA AND COMPONENT SPECIALISTS (F-15) (AFSC 326350) 		REMOVE OR	0 4 0 4 1 4	5 6 6 C
SUCH AS FUSES, CIRCUIT BRLAKERS, OR TRANSFORMERS 46 Supervise Apprivitee Integrated Autonics Manual Test 4.39 Station And Component Specialists (F-15)(AFSC 326358)		REMOVE OR		1.01
B SUPERVISE APPRENTICE INTEGRATED AVIONICS MANUAL TEST Station And Component Specialists (F-15)(AFSC 326358)		SUCH AS P		
326358		SUPENVISE APPRENTICE INTEGRATED AVIONICS MANUAL TEST	4.39	20.02
		STATION AND COMPONENT SPECIALISTS (F-15) (AFSC 326358		

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TABLE 28 (CONTINUED)

POI 3AB3326358 MATCHED WITH SURVEY DATA

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66 -				1.E	157	1.0
	C	D TSK 771150				A 36
•				• •		
-	Ŧ	M 205 PEAFURY COMPUSION CONTROL OF TEST STATIONS, TEST Fourdancy of Auto	ONS, TEST	4 e 35	10.7	# * # 3
-	S	686 IS	ICAN RADIO-RECEIVEN	4.35	54.7	5.21
	w	131 AVMOTATE RECEIPT OF LPU'S INTO OF	OUT OF SHOP ON FORMS	4.26	53.3	3.29
•		JET MAINTAIN TOOL STORAGE AREAS		4.13	30.7	4°,15
	\$	663 A	TON (TACAN)	4.13	52.1	5.03
•	5	673 B	TAL PDAPTER	4.13	42.7	4.52
	0	CONVERTLRS D 97 COUNSEL TRAINFES ON TRAINTNE PROGRESS		4 . D9	6.7	4.87
-	~	688 ISOLATE MALFUNCTIONS IN F-IS	CONTROL	4°04	62.7	£.07
-	~	743 I	PARCHAFT GRIP	4.00	82.7	4 . 36
	I	215		3.96	17.3	4°69
-		738 I	FEST CUNTROL/DISPLAY	3.96	82.7	5 • 09
				3,91	0.44	5.23
•	9	677	IFIERS	3.91	62.7	5.05
•	**	737	TATUS PANELS	3.91	80.0	4 • 4 C
	ل ت	<pre>E 142 ANNOTATE UNSERVICEABLE (CONDEMNED) TAG MATEPIEL FORMS</pre>	MATEPIEL FORMS	3.87	60.0	3.52
•	9	174 C		3.87	33.3	. 01
		223 REMOVE OR	ILBS, FUSES, OR	3.87	81.3	2.62
-	-	T 695 BENCHECK F-IS AIRCHAFT AIR TEMPERATURE	RE ELECTRONIC	3.87	69.3	4 . 55
						,
-	x +	ZIT REMOVE OR PEPLACE F-15 LPU Tot benchruscy file controlise	T RADAK SYSTEM SRU'S	м 60 м	29.3	- M
		716 REACHCRECK F-15 CUNIKULLER 716 ReachCheck F-15 Integratio	ALKCKALI GKLY ASSEJBLILS Navigational ates fentool		60.00 81.8	
	•	PANELS		•		2
	-			3.83	£ • 09	4 • 2 4
			11500	3.78 7.78	20.7	
-	-	739	C CONTROL PANELS	3.78	66.7	. 73
	w	143		3.74	52.0	7.37
-		(DD FUPM 1577+2) 1 404 benenteek e-15 albergaet i tent ei asuede			r 4	
		698	-			
		701 BENCHCHECK F-IS AVIONICS			82.7	
-		702 BENCHCHECK	JISPLAY PANELS	3.74	85.3	* • 5 I
	z •	194 CLEAN TEST		3.70	85.3	2 . 34
-			25	3.70	82 • 7	20 * *
,			TORS TND TE A TORS	3.70		6 • 10 • • • •
	-	BENCHCHECH F-15	DICATORS	3.70	77.0	6 M • 4
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TABLE 28 (CONTINUED)

POI 3484326355 MATCHLP WITH SURVEY DATA

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			V E U		
٩	TSK	1111rs 2	*0*	Ē	
-	747	ISOLATE MALFUNCTIONS TH F-15 INTEGRATED NAVICATION AIDS	3.70	17.1	
		CONTROL PANELS	2	•	
-	750	ISOLATE MALFUNCTIONS IN F-15 PAPAR SET CONTPOLS	3.70	69°3	
		ISULATE MALFUNCTIONS IN F-15	3,65	74.7	
			3.61	0.4	4.25
-		BENCHCHECK F-15	3.61	72.0	
-		BENCHCHECK F-15	3.61	73.3	
-	127	BENCHCHECK F-IS OVERHEAT FIRE UFTECTION ALAPH CONTROLS	3.61	60.0	
-		BENCHCHECK F-15	3.61	57.3	
-	129	BENCHCHECK F-15 SDTDC	3.61	80.0	
-	730	8	3.61	82.7	
		LEVER GRIPS			
-	731		3.61	52.0	
-			3.56	62.7	
			3.56	74.7	
; (109	BENCHCHECK F+15	3.56	13.3	
		RENCHECK F-15 FUEL LLVEL CONTROLS	3.56	61.3	
- 1		BENCHCHECK F-15	3.56	70.7	
 			3.56	78.7	
-			3.56	16.0	
• •		ISOLATE MALFUNCTIONS IN F-15 COMPASS CONTROLS	3•56 1	68.0	
		BENCHCHECK Fais fan Tukbine inlet temperatupe indicators Bencheneck faie at breside tudtator	3.52	1.81	
- 4		DEMEMBERS FILS UIE PPENSUKE INUILATURS Mathtath Dhérietan ne achdement fond dhen			
•			0	•••	
I			3.88	73.3	
I	210		3.48	60.3	
I	212		3.48	78.7	
U		INITIATE UNSATISFACTUPY REPORTS	3 # °	16.0	
ى	163		38°0	73.3	
		REPLACEAPLE UNITS (SPU'S) FOR SHIPMENT			
-	717		1 · · ·	fo*3	
I			3.39	14.7	
1		PIECE DE DEDIATE ENERGY AND ATTA AND DISA	•	•	
		DELEVERY ON NUTLACE EVENDING ANULO DI DANU TICCO Delevery suit auteura celeverde:		101	
•					
- 64		MAINTAIN DATI V D			
•			•		
۴.	170		3.35	6.7	
J		PERFORM PRODUCTION: OF SUPERVISORY INSPECTIONS OF LAU'S	3.30	10.7	
U :			3.26	14.7	
E (961	LUSIALL TEST STATIONS IN HOPK AREAS	3.26	33.3	
ەن		CERTIFY STATUS CF HEPAHABLE, SEPVICEARLE, OP CONCEMNED Dade	3.22	20.02	
•	171			•	
-			2245	1.1	

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TABLE 28 (CONTINUED)

POL 3AB326358 MATCHED WITH SURVEY DATA

-a e⊧					
	TSN	21111 s	10×		X 56 (F)
	INT EVALUATE	0.17 TOATAFFS	1.1.7		
		MCMCHFCK F-15 LEVEL SENSING FUEL TRANSFFRS			
		K F-IS LIGUIT QUANTITY INDICATOR REPEATERS			
		SUPPLY PUBLICATIONS	10.0	18.7	19.3
		OPERATE GRUUND POWERLY REPOSPACE GROUND EQUIPMENT (AGE),	3.04	34.7	3.75
			i		i
٩	146 521 UP AV 3956ATIN	SET UP AVIOYICS AND SUPPORT EQUIPMENT AT MORILITY Operating antas	3.04	C + h Z	6 • 7 2
9	189 SET UP AV	SET UP AVIONICS AND SUPPUPT EQUIPMENT FOR NORMAL	3.04	25.3	6.54
		OPERATION AFTER MOBILITY OPERATIONS		I	
		DETERMINE WORK PRIURITES	3.00	16.0	0 4 • 4
	150 MAINTAIN TEST An adebade abuse	MALWIAIN TEST COUPHENT STURAGE ARLAS Aderate aduse	2°00	50.7	3.77
<u>م</u> ا د		MAINTAIN FOULPHENT STATUS NEPORTS	2.8.2	1.1	
			2.83	60.0	5 n
•					i
9	TAINING OLD	FAINTALM NUTLEAF, BIULUGICAL, AND UMENICAL WANTAKE Fourdarke		10.1	
		CHNICAL ORDEP IMPROVEMENT RLPORTS	2.65	0.4	5.62
لي	126 ANNOTATE		2.65	28.0	*.69
¢	FORM 114)) Tuatutur beraade fulate ad Ediaue			é
		ALTER TO TO TOTALE TOTAL OUTS CANNER TO ALTER TOTALE TOTALE	10.7		
- 14		VENTEY SUPPLY DUCATE LEATION (1) LISTANCE VENTEY SUPPLY SUFFICIENTS (V-30 OR 0-35)	1942		10.
		DEVELOP WORK METHODS OF PPOCEDURES	2.44	10.7	
	120 ANNOTATE	ANNOTATE DOD SINGLE LINE ITEM RELEASE/RECFIPT DOCUMENT	2.44	22.7	3.39
		FORMS (DC FORM 1348-1)			
	St WITE COR	WITE CORPESPONDENCE	2.39	2.7	2.90
2 4		PMEPARE UEFECTIVE TEST STATION EQUIPMENT FOR SHIPMENT Setabited Dubiteation (tedantes	2,55	2.°0	
		ERSONNEL ON DERSONAL OR MILITARY RELATED MATTEDS	2.26		
	127 AVNOTATE	AWDIATE NON-NSN REQUISITION (MANUAL) FORMS	2.26	0.0	5°03
		(DD FORM 1348-6)		•	
۹		ECTICN PROGRAMS	2.13	6.7	6.1
< (15 ESTABLISH	PEPFORMANCE STANDARDS FOR SUBORDINATES	2.09	0 .	55° 1
0 4		AFFLEFEN SFLET FRUGFATS Maintain status anadns, goadns, no fuadts	2. C	1 • 5 • • • • • •	0100
. <	3 COORDINAT	COORDINATE JOE REQUIREMENTS WITH DIMER SECTIONS	1.96		
6		INTERPRET POLICIES, DIPICTIVES, OF PROCEDURES FOR	1.96		5.74
1		ATES			
U 0		LVALUATE SAFETY PROGRAMS	1.91	2.7	8 ° ° °
D 1		DIRECT MAINTENANCE OF PUBLICATION LIBRARIES	1.87	-	ອັ ທີ
• •	101 PLACE IES 12 fetablish	PLACE IEST EQUIPMENT IN STURAGE APEAS Fetablich förderige fonton, dörelere	1.87		
r 14		LATTELIAT CONTACTER CONTACT FROM AND 15 SUE TEST EQUIPAENT FROM ATOPAGE	7 0 0 1 -	2 - L	
. 46.		MAINTAN ADAINISTPATIVE FILES			22°4
۹	S LSIABLI	LSIABLISH INSPECTION PROCEDURES	1.75		1
U	AVAL YZE	KORMLOAT REGUIREMENTS	1.78) en 1 - e 1	5 ° 5
۰.	3 POLPAPL	"TEPMEL'LATE TEST-VOLO PEPURTS	1.78	16.0	. CO

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Training Comparisons

After reviewing the survey data presented individually for the AFS 326X5A and 326X5B specialties, several comparisons can be made to illustrate the commonality of these specialties. Several tasks, are performed by first-termers in both specialties:

install caps, plugs, or dust covers on test stations, test equipment, or LRU's visually inspect and clean LRU's visually inspect and clean test stations order parts by telephone research microfiche for part information research materials for part numbers perform periodic inspections of test stations perform confidence checks of test stations pressurize LRU's remove or replace test station light bulbs, fuses, or minor hardware clean test station blower filters

Tasks performed in common by first-termers in both AFSC's are general in nature, were rated below average in task difficulty, and average or below in training emphasis. First-termers in each specialty also perform equipment specific tasks as a major part of their jobs (see Tables 18 and 23). Four pieces of equipment are commonly used by F-15 and F/FB-111 first enlistment personnel: the IFF Mode IV Computer Test Equipment group, ILS test set, AN/UPM-137, and the AN/URM-95A. Several special tools or items of equipment are also utilized by at least 30 percent of the 326X5A and 326X5B first enlistment personnel. These include, oscilloscopes, multimeters, spectrum analyzers, signal generators, and torque wrenches. However, as may be seen on Tables 20 and 25, many types of equipment are used primarily by members of one shred or the other but not by both.

Overall, comparison of the training aspects of the 326X5A and 326X5B specialties confirm the separate and unique nature of each shred, while still reflecting a common theme of manual test station maintenance.

JOB SATISFACTION INDICATORS

Survey respondents have the opportunity in the background of the job inventory to express their job interest, perceived utilization of talents and training, sense of accomplishment, and reenlistment intentions. Several types of analysis were performed on these data.

Responses of all DAFSC 326X5 personnel are presented in Table 29, along with comparative sample data compiled for all personnel surveyed in 1980. These data also allow for the identification of trends in job satisfaction of AFS 326X5 personnel as related to personnel in similar specialties and to all specialties in general. The Integrated Avionics Manual Test Station Specialty is classified as a mission equipment maintenance specialty. In 1980, five specialties were surveyed in this area: Weather Equipment (AFSC 302X0), Telecommunications Systems (AFSC 307X0), Space Systems Equipment (AFSC 308X0), Avionic Sensor Systems (AFSC 322X2A/B/C), and Fabrication and Parachute (AFSC 427X3). These specialties constitute a comparative sample of 3,653 personnel as the data base for specialties "related" to avionic systems maintenance. Job satisfaction responses of 326X5 personnel are very similar to respondents in related specialties, and all 1980 survey respondents in general. Only in the area of reenlistment intention, does the 326X5 specialty show a lower positive response. Perhaps even more relevant is to compare these job satisfaction responses to respondents in other 326XX specialties. At the time of this survey, AFSCs 326X3A/B, 326X4A/B, 326X6A/B, 326X7A/B, and 326X8A/B were also being surveyed (see Table 30). Each specialty is responsible for maintaining different avionic systems on the F-15 or F/FB-111. The Manual Test Station respondents (AFS 326X5A) seem to have average job satisfaction responses when compared to the other 326XX specialties.

Comparisons of the job satisfaction indicators between DAFSC 326X5A and 326X5B personnel show quite a bit of variance by shred (see Table 31). Incumbents in the 326X5A (F/FB-111) specialty responded much more positively than AFS 326X5B (F-15) respondents, especially in the area of perceived utilization of talents and training. Reenlistment intentions are consistent for both specialty shreds.

As seen previously in the JOB STRUCTURE ANALYSIS, A-shred (F/FB-111) respondents formed several groups specializing in different functions and have higher job satisfaction, versus the B-shred (F-15) respondents which grouped into one job type and have lower job satisfaction responses.

TABLE 29

COMPARATIVE JOB SATISFACTION OF 326X5 SURVEY RESPONDENTS

	AFSC 326X5	1980 COMPAR/ MISSION EQUIPMENT MAINTENANCE *(N=3,653)	ATIVE SAMPLE ALL 1980 SPECIALTIES
FINDS JOB INTERESTING:	62%	62%	65%
FEELS TALENTS UTILIZED FAIRLY WELL OR BETTER:	71%	69 %	72%
FEELS TRAINING UTILIZED FAIRLY WELL OR BETTER:	72 %	72%	64 %
SATISFIED WITH SENSE OF ACCOMPLISHMENT:	56 %	56 %	61%
PLANS TO REENLIST:	42%	50%	57%

*ALL MISSION EQUIPMENT MAINTENANCE SPECIALTIES SURVEYED IN 1980: AFSCs 302X0, 307X0, 308X0, 322X2A/B/C, AND 427X3

TABLE 30

			DA	FSC	_	
	326X3A	326X4A	326X5A	326X6A	326X7A	326X8A
	<u>(N=203)</u>	<u>(N=352)</u>	<u>(N=109)</u>	<u>(N=221)</u>	<u>(N=189)</u>	<u>(N=180)</u>
FINDS JOB INTERESTING:	76 %	74 %	66%	61%	7 6%	5 8%
FEELS TALENTS UTILIZED FAIRLY WELL OR BETTER:	83 %	83 %	81%	67 %	76%	65 %
FEELS TRAINING UTILIZED FAIRLY WELL OR BETTER:	92 %	74%	84%	72%	83%	74 %
SATISFIED WITH SENSE OF ACCOMPLISHMENT:	67 %	64 %	62 %	49%	6 8%	55 %
PLANS TO REENLIST:	26 %	32%	35%	37%	43%	39%

COMPARATIVE JOB SATISFACTION FOR 326XX SPECIALTIES SURVEYED IN 1981

		-	DAF	SC		
	326X3B	326X4B	326X5B	326X6B	326X7B	326X8B
	<u>(N=94)</u>	<u>(N=212)</u>	<u>(N=118)</u>	<u>(N=101)</u>	<u>(N=104)</u>	<u>(N=111)</u>
FINDS JOB INTERESTING:	68 %	70%	60 %	55 %	67%	52%
FEELS TALENTS UTILIZED FAIRLY WELL OR BETTER:	73%	73%	62 %	51%	71%	59%
FEELS TRAINING UTILIZED FAIRLY WELL OR BETTER:	61%	77%	65 %	62 %	70 %	5 9%
SATISFIED WITH SENSE OF ACCOMPLISHMENT:	57%	61%	57%	42%	62%	45 %
PLANS TO REENLIST:	33%	2 9%	38%	37%	41%	49%

ТA	BL	E	3	1

JOB SATISFACTION OF 326X5A/B SURVEY RESPONDENTS

		DAFSC	
	326X5A	326X5B	32675
	<u>(N=109)</u>	<u>(N=118)</u>	<u>(N=79)</u>
FINDS JOB INTERESTING:	66%	60%	61%
FEELS TALENTS UTILIZED FAIRLY WELL OR BETTER:	82%	62%	70%
FEELS TRAINING UTILIZED FAIRLY WELL OR BETTER:	84%	65%	66 %
SATISFIED WITH SENSE OF ACCOMPLISHMENT:	62%	57%	58 %
PLANS TO REENLIST:	35%	38%	57%

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IMPLICATIONS

In the request for the survey of the AFS 326X5 specialty, two primary issues were raised: the possibility of assigning shreds to the 7-skill level, and the adequacy of training for the A- and B-shred personnel.

Survey data indicate separate and distinct jobs are performed by AFS 326X5A, 326X5B, and 32675 personnel. The only commonality exists in the performance of very general test station, LRU, or forms maintenance. These findings indicate the current classification structure is accurate in its depiction of the 326X5 specialty. Most 7-skill level personnel function as managers or supervisors in F/FB-111 or F-15 units but some 7-skill level individuals are found performing technical jobs or are working as supervisors (see Job Structure Analysis section). They are also conducting OJT for new personnel on the aircraft system assigned to their units. The specific aircraft orientation and OJT responsibilities of the 7-skill level individuals who are firstline supervisors or technicians would seem to support shredding the specialty through the 7-skill level. The fact that most 7-skill levels perform more nonaircraft specific tasks would support the present common 7-skill structure. The issue is compounded, however, by the great diversity of jobs and equipment involved with F/FB-111 personnel (AFS 326X5A). A further factor is the relatively small number of 7-skill level personnel (N=82); shredding a group this size would severely restrict All of these factors will be further complicated with assignment flexibility. the establishment of the additional shred for the F-16 system (AFS 326X5C). With the additional diversity of equipment and systems, a 7-skill level shred may be very practical, particularly in terms of enhancing aircraft specific OTT.

In response to the training question, the STS, POI, and jobs performed by first enlistment personnel were analyzed. The AFS 326X5A specialty is very diverse in its responsibilities. Several suggestions were made to further encompass some of these responsibilities. Due to the numerous types of test equipment utilized, more specialized training, as is currently provided for the AAI system, could be designed for systems, such as SATCOM, ILS, or Radar Test Sets. Very clear distinctions were also possible by MAJCOM and aircraft model, also suggesting a combination of common and specialized training might be appropriate. For AFS 326X5B respondents, who perform a very homogeneous function, the training documents are quite relevant to the job actually performed in the operational environment. The only additions involve the maintenance of UHF radios, and TACAN (ARN-118) systems. While revisions for each shred are suggested, the primary functions of each shred are accurate within the STS and POI.

APPENDIX A

<u>REPRESENTATIVE TASKS</u> are provided for each cluster and Independent Job Type. <u>BACKGROUND INFORMATION</u> is provided for each job type within the clusters.

REPRESENTATIVE TASKS PERFORMED BY F/FB-111 MANUAL TEST STATION SHOP PERSONNEL (GRP011, N=108)

TASKS		PERCENT MEMBERS PERFORMING
H197	INSTALL CAPS, PLUGS, OR DUST COVERS ON TEST STATIONS, TEST	
	EQUIPMENT, OR LRU'S	100
H212	PRESSURIZE LRU'S	99
	VISUALLY INSPECT AND CLEAN TEST STATIONS	98
	CLEAN TEST STATION BLOWER FILTERS	9 8
H225	VISUALLY INSPECT AND CLEAN LRU'S	97
H199	INVENTORY TEST STATIONS OR ROLLAWAYS	96
H208	PERFORM PERIODIC INSPECTIONS OF TEST STATIONS	96
H204	PERFORM CONFIDENCE CHECKS OF TEST STATIONS	95
H223	REMOVE OR REPLACE TEST STATION LIGHT BULBS, FUSES, OR MINOR	
	HARDWARE	94
H207	PERFORM PERIODIC INSPECTIONS OF TEST EQUIPMENT	94
F160	ORDER PARTS BY TELEPHONE	93
M390	BENCHCHECK F/FB-111 CENTRAL AIR DATA COMPUTERS	92
H196	INSPECT EQUIPMENT FOR CORRECT CALIBRATION DATES	92
P538	BENCHCHECK F/FB-111 ANTICOLLISION LIGHTS	91
F167	RESEARCH MICROFICHE FOR PART INFORMATION	91
H206	PERFORM FUNCTIONAL CHECKS OR TEST AND INSPECTION (T AND I) OF LRU'S ISSUED FROM SUPPLY	90
K272	BENCHCHECK B/FB-111 ARC-164 UHF RECEIVER TRANSMITTERS	90
	ISOLATE MALFUNCTIONS IN F/FB-111 ANTICOLLISION LIGHTS	89
	BENCHCHECK F/FB-111 MAXIMUM SAFE MACH ASSEMBLIES	88
	ALIGN F/FB-111 ANTICOLLISION LIGHTS	87
	BENCHCHECK F/FB-111 ARC-164 UHF RADIO SET CONTROLS	86
H222	REMOVE OR REPLACE TEST STATION CABLE ASSEMBLY PINS OR	
	HARDWARE	86
F166	RESEARCH MANUALS FOR PART NUMBERS	85
	ISOLATE MALFUNCTIONS IN F/FB-111 MAXIMUM SAFE MACH ASSEMBLIES	
	TO SRU OR CHASSIS	83
L311	BENCHCHECK F/FB-111 HF ANTENNA COUPLERS	83
M422	REMOVE OR REPLACE F/FB-111 CENTRAL AIR DATA COMPUTER SRU'S	82
M426	REMOVE OR REPLACE F/FB-111 MAXIMUM SAFE MACH ASSEMBLY SRU'S	82
K269	ALIGN F/FB-111 ARC-164 UHF RECEIVER TRANSMITTERS	82
P568	REMOVE OR REPLACE F/FB-111 ANTICOLLISION LIGHT BITS AND PIECES	81
M399	ISOLATE MALFUNCTIONS IN F/FB-111 CENTRAL AIR DATA COMPUTERS TO SRU OR CHASSIS	81
K 275	ISOLATE MALFUNCTIONS IN F/FB-111 ARC-164 UHF RECEIVER	••
	TRANSMITTERS TO SRU OR CHASSIS	81
N451	BENCHCHECK F/FB-111 APX-64 IFF SYSTEM CONTROL BOXES	81
	ALIGN F/FB-111 HF ANTENNA COUPLERS	81
	BENCHCHECK F/FB-111 HF ANTENNA COUPLER CONTROLS	81
	ANNOTATE SIGNIFICANT HISTORICAL DATA FORMS (AFTO FORM 95)	80
	REMOVE OR INSTALL TEST REPLACEABLE UNITS (TRU'S)	80
K273	ISOLATE MALFUNCTIONS IN F/FB-111 ARC-164 RADIO SET CONTROLS	~ -
	TO SRU OR CHASSIS	80
J245	BENCHCHECK F/FB-111 ILS GLIDE SLOPE MARKER BEACON RECEIVERS	80

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NUMBER IN GROUP: PERCENT OF CLUSTER: PERCENT LOCATED OVERSEAS: PERCENT LOCATED OVERSEAS: 32635A 32675 32675 32675	TACAN (GRP093) 8 7% 27% 75% -	AAI (GRP116) 6 6% 100% -	MISSION & TRAFFIC CONTROL (ARC-123) (GRP102) 7% 7% 73% 73% 73% 73% 23%	MISSION & TRAFFIC CONTROL (ARC-112) (GRP091) 13 13 13 13 8% 8%	SATCOM (GRP081) 9 8% NONE 89% -	CADC (GRP058) 7 6% 29% 29% 14%	GENERAL MAINT (GRP037) 7 6% 29% 29% -
AVERAGE GRADE: AVERAGE TINE IN SERVICE: AVERAGE TINE IN SERVICE: PERCENT SUPERVISING: PERCENT IN FIRST ENLISTMENT: AVERAGE NUMBER OF TASKS PERFORMED:	E-4 81 MOS 37% 63% 166	E-4 46 MOS NONE 83% 244	E-4,E-5 81 MOS 40% 33% 224	E-3,E-4 48 MOS 23% 69% 216	E-4 38 MOS 11% 236	E-4 64 MOS NONE 57% 140	E-3,E-4 32 MOS NONE 100% 97
FINDS JOB INTERESTING: FEELS TALENTS UTILIZED FAIRLY WELL OR BETTER: FEELS TRAINING UTILIZED FAIRLY WELL OR BETTER: SATISFIED WITH SENSE OF ACCOMPLISHMENT: PLANS TO REENLIST:	68 % 50 % 50 % 25 %	67 % 67 % 50 % 17%	68% 82% 55% 45%	5 4% 7 7% 39%	100% 100% 89% 56%	57% 100% 57% 29%	72% 86% 71% 57%

A2

TABLE A2

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AVIONICS AGE EQUIPMENT UTILIZED BY F/FB-111 MANUAL TEST STATION JOB TYPE GROUPS

A3			MISSION & TRAFFIC	TRAFFIC			CENEDAT
	TACAN	IVV	ARC-123	3 ARC-112	SATCOM	CADC	MAINTENANCE
ALK-LU-ALK INIEKKUGAIUW IESI EQUIFTENI GROUPS (AN/APX-75 HOT MOCK-UPS)	0	100%	15%	0	0	0	14%
CENTRAL AIR DATA COMPUTERS (12A1803A1)	100%	100%	100%	100%	78%	100%	100%
COMMUNICATONS AND NAVIGATIONAL AIDS TEST STATIONS (12A16850)	100%	67%	% 06	100%	%68	86%	71%
ELECTRICAL TEST STATIONS (12A3409)	25%	100%	88%	100%	11%	29%	29%
ELECTRICAL TEST STATIONS (12A3439)	75%	17%	23%	8%	100%	71%	57%
EMERGENCY RADIO TEST EQUIPMENT GROUPS (AN/URM-95A)	25%	67%	83%	100%	20	14%	29%
IDENTIFICATION-FRIEND-OR-FOE (IFF) MODE IV COMPUTER TEST EQUIPMENT GROUPS (KIR/KIT)	100%	83%	% E6	85%	100%	86%	71%
IDENTIFICATION-FRIEND-OR-FOE (IFF) TEST EQUIPMENT GROUPS (AN/APX-64 HOT MOCK-UPS)	100%	100%	85%	85%	% 68	57%	86%
INSTRUMENT LANDING SYSTEM (ILS) TEST SETS	100%	83%	75%	85%	89%	71%	43%
MISSION & TRAFFIC CONTROL TEST STATIONS (12A16849)	25%	100%	85%	100%	X0	29%	14%
MISSION & TRAFFIC CONTROL TEST STATIONS (12A16879)	75%	17%	18%	8%	% 68	71%	57%
RADAR TEST SETS AN/UPM-137	100%	67%	28 9	277	78%	29%	57%
SATELLITE COMMUNICATIONS TEST STATIONS	75%	20	10%	20	8 9 %	29%	43%
SIGNAL/DATA CONVERTER TEST STATIONS	63%	20	30%	85%	22%	57%	14%
TACTICAL AIR NAVIGATION (TACAN) TEST EQUIPHENT GROUPS (AN/ARN-84 HOT MOCK-UP)	88%	33%	58%	23%	67%	71%	14%
TACTICAL AIR NAVIGATION (TACAN) TEST EQUIPMENT GROUPS (AN/ARN-118 HOT MOCK-UP)	20	67%	43%	92 %	% 0	2 9%	14%
ULTRA HIGH FREQUENCY (UHF) TEST EQUIPMENT GROUPS (AN/ARC-164 HOT MOCK-UPS)	100%	83%	100%	77%	% 69	71%	71%

A3

REPRESENTATIVE TASKS PERFORMED BY F-15 MANUAL TEST STATION SHOP PERSONNEL (GRP044, N=122)

TASKS		PERCENT MEMBERS PERFORMING
R647	BENCHCHECK F-15 RADAR SYSTEM ANTENNAS	99
D651	TOTATE MATERINGTIONS IN E-15 DADAD SUCTEM ANTENNAS	0.9
R648	ISOLATE MALFUNCTIONS IN F-15 RADAR SYSTEM ANTENNAS BENCHCHECK F-15 RADAR SYSTEM LOW VOLTAGE POWER SUPPLIES	98
R652	BENCHCHECK F-15 RADAR SYSTEM LOW VOLTAGE POWER SUPPLIES ISOLATE MALFUNCTIONS IN F-15 RADAR SYSTEM LOW VOLTAGE POWER SUPPLIES PENCHCHECK F-15 RADAR SYSTEM TRANSMITTERS	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	POWER SUPPLIES	98
R649	BENCHCHECK F-15 RADAR SYSTEM TRANSMITTERS	98
R653 T746	BENCHCHECK F-15 RADAR SYSTEM TRANSMITTERS ISOLATE MALFUNCTIONS IN F-15 RADAR SYSTEM TRANSMITTERS ISOLATE MALFUNCTIONS IN F-15 INTEGRATED COMMUNICATIONS	98
	CONTROL PANELS	98
T712	BENCHCHECK F-15 FUEL QUANTITY INDICATORS	98
T715	BENCHCHECK F-15 INTEGRATED COMMUNICATIONS CONTROL PANELS	97
H197	INSTALL CAPS, PLUGS, OR DUST COVERS ON TEST STATIONS,	
	TEST EQUIPMENT, OR LRU'S	97
T721	BENCHCHECK F-15 MAIN COMMUNICATIONS CONTROL PANELS	97
S679	BENCHCHECK F-15 ILS TEST SETS	97
R646	ASSEMBLE OR DISASSEMBLE F-15 RADAR SYSTEM ANTENNAS	96
R644	ALIGN F-15 RADAR SYSTEM ANTENNAS	96
R645	ALIGN F-15 RADAR SYSTEM TRANSMITTERS	96
T705	BENCHCHECK F-15 CAUTION LIGHT LOGIC UNITS	96
T741	ISOLATE MALFUNCTIONS IN F-15 CAUTION LIGHT LOGIC UNITS	96
T692	ADJUST F-15 CONTROLLER AIRCRAFT GRIP ASSEMBLIES	95
T714	ISOLATE MALFUNCTIONS IN F-15 INTEGRATED COMMUNICATIONS CONTROL PANELS BENCHCHECK F-15 FUEL QUANTITY INDICATORS BENCHCHECK F-15 INTEGRATED COMMUNICATIONS CONTROL PANELS INSTALL CAPS, PLUGS, OR DUST COVERS ON TEST STATIONS, TEST EQUIPMENT, OR LRU'S BENCHCHECK F-15 MAIN COMMUNICATIONS CONTROL PANELS BENCHCHECK F-15 ILS TEST SETS ASSEMBLE OR DISASSEMBLE F-15 RADAR SYSTEM ANTENNAS ALIGN F-15 RADAR SYSTEM ANTENNAS ALIGN F-15 RADAR SYSTEM TRANSMITTERS BENCHCHECK F-15 CAUTION LIGHT LOGIC UNITS ISOLATE MALFUNCTIONS IN F-15 CAUTION LIGHT LOGIC UNITS ADJUST F-15 CONTROLLER AIRCRAFT GRIP ASSEMBLIES BENCHCHECK F-15 IDENTIFICATION FRIEND-OR-FOE (IFF) CONTROL PANELS PERFORM CONFIDENCE CHECKS OF TEST STATIONS	95
H204	PERFORM CONFIDENCE CHECKS OF TEST STATIONS	95
	SERVICE F-15 AN/GSM-228 TEST STATION COOLING AND CONDITIONING	
m70/	UNITS WITH COOLANT OIL	95
	BENCHCHECK F-15 CAUTION LIGHT DISPLAY UNITS	95
	ALIGN F-15 ILS TEST SETS	95 05
11000	SERVICE F-15 AN/GSM-228 TEST STATION HYDRAULIC POWER SUPPLIES	~ /
H208	PERFORM PERIODIC INSPECTIONS OF TEST STATIONS	94
T694	PERFORM PERIODIC INSPECTIONS OF TEST STATIONS ALIGN F-15 INTEGRATED COMMUNICATIONS CONTROL PANELS BENCHCHECK F-15 GENERATOR CONTROL UNITS VISUALLY INSPECT AND CLEAN TEST STATIONS ISOLATE MALFUNCTIONS IN F-15 MOTION PICTURE CAMERAS BENCHCHECK F-15 MOTION PICTURE CAMERAS	94
T/13	BENCHCHECK F-15 GENERATOR CONTROL UNITS	94
H220	VISUALLY INSPECT AND CLEAN TEST STATIONS	93
T/49	ISOLATE MALFUNCTIONS IN F-15 MOTION PICTURE CAMERAS	93
T/22	BENCHCHECK F-15 MOTION PICTURE CAMERAS SERVICE F-15 AN/GSM-228 TEST STATION FLUSH AND FILL UNITS	93
	VISUALLY INSPECT AND CLEAN LRU'S ISOLATE MALFUNCTIONS IN F-15 MAIN COMMUNICATION CONTROL	93
	PANELS	93
	BENCHCHECK F-15 CONTROLLER AIRCRAFT GRIP ASSEMBLIES	93
	ISOLATE MALFUNCTIONS IN F-15 IFF CONTROL PANELS	93
	BENCHCHECK F-15 BUILT-IN TEST CONTROL/DISPLAY PANELS	93
	ISOLATE MALFUNCTIONS IN F-15 CAUTION LIGHT DISPLAY UNITS	93
	BENCHCHECK F-15 ILS RADIO RECEIVERS	93
	ALIGN F-15 APX-76 RADIO-RECEIVER TRANSMITTERS	92
	CALIBRATE F-15 AN/GSM-228 TEST STATIONS	92
	ISOLATE MALFUNCTIONS IN F-15 GENERATOR CONTROL UNITS	92
S690	ISOLATE MALFUNCTIONS IN F-15 ILS TEST SET LRU'S TO BIT AND PIECE	92
S689	ISOLATE MALFUNCTIONS IN F-15 ILS RADIO RECEIVERS	92
	BENCHCHECK F-15 ALTITUDE INDICATORS	92

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TABLE A3

BACKGROUND INFORMATION FOR F~15 MANUAL TEST STATION SHOP JOB TYPE GROUPS

	F-15 MANUAL TEST STATION SHIFT SUPERVISORS	F-15 MANUAL TEST STATION OPERATORS-MAINT
NUMBER IN GROUP:	5	114
PERCENT OF CLUSTER:	4%	93%
PERCENT LOCATED OVERSEAS:	40%	47%
DAFSC DISTRIBUTION:		
326X5A	-	
32635B	-	8%
32655B	60%	81%
32675	40%	11%
AVERAGE GRADE:	E-5	E-4
AVERAGE TIME IN SERVICE:	124 MOS	59 MOS
PERCENT SUPERVISING:	100%	38%
PERCENT IN FIRST ENLISTMENT:	NONE	57%
AVERAGE NUMBER OF TASKS PERFORMED:	97	146
FINDS JOB INTERESTING: FEELS TALENTS UTILIZED FAIRLY WELL OF	60%	55%
BETTER: FEELS TRAINING UTILIZED FAIRLY WELL (40%	61%
BETTER: SATISFIED WITH SENSE OF	80%	63%
ACCOMPLISHMENT:	60%	47%
PLANS TO REENLIST:	100%	39%
		/•

A5

REPRESENTATIVE TASKS PERFORMED BY MANAGEMENT CLUSTER PERSONNEL (GRP022, N=34)

TASKS		PERCENT MEMBERS PERFORMING
C80	PREPARE APR's	94
B45		0.0
	SUBORDINATES	88
A6	DETERMINE WORK PRIORITIES	88
B31	COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED MATTERS	88
	ENDORSE AIRMAN PERFORMANCE REPORTS (APR) WRITE CORRESPONDENCE	85
C85	REVIEW MAINTENANCE DATA COLLECTION RECORD FORMS	82
	(AFTO FORM 349) FOR ACCURACY	82
C64	EVALUATE INDIVIDUALS FOR RECOGNITION	82
	RESEARCH MICROFICHE FOR PART INFORMATION	82
C56	CERTIFY STATUS OF REPARABLE, SERVICEABLE, OR CONDEMNED	02
0.50	PARTS	79
E122	ANNOTATE ISSUE/TURN IN REQUEST FORMS (AF FORM 2005)	79
C83	REVIEW CORRESPONDENCE	76
	REVIEW EQUIPMENT RECORDS FOR ACCURACY	76
	EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS	76
	PREPARE REPLIES TO INSPECTION REPORTS	76
	RESEARCH MANUALS FOR PART NUMBERS	76
B52	SUPERVISE INTEGRATED AVIONICS MANUAL TEST STATION AND	
	COMPONENT TECHNICIANS (AFSC 32675)	74
	REVIEW TECHNICAL ORDER IMPROVEMENT REPORTS	74
	PLAN WORK ASSIGNMENTS	74
	ANNOTATE MAINTENANCE DATA COLLECTION RECORD FORMS	
	(AFTO FORM 349)	74
A3	COORDINATE JOB REQUIREMENTS WITH OTHER SECTIONS	74
A17		• •
	BRIEFINGS, CONFERENCES, OR WORKSHOPS	71
E138	ANNOTATE SYSTEM/EQUIPMENT STATUS RECORD FORMS	
	(AFTO FORMS 244 AND 245)	71
D98	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	68
A9	DEVELOP SELF-INSPECTION PROGRAMS	68
C79	PERFORM PRODUCTION OR SUPERVISORY INSPECTIONS OF LRU'S	68
A15	ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES	68
C69	EVALUATE MATERIAL DEFICIENCY REPORTS	68
E143	ANNOTATE UNSERVICEABLE (REPARABLE) TAG MATERIEL FORMS	
	(DD FORM 1577-2)	68
D97	COUNSEL TRAINEES ON TRAINING PROGRESS	68
	ANNOTATE REPARABLE ITEM PROCESSING TAG FORMS (AFTO FORM 350)	68
E142	ANNOTATE UNSERVICEABLE (CONDEMNED) TAG MATERIEL FORMS	
	(DD FORM 1577)	68
A1	ASSIGN PERSONNEL TO DUTY POSITIONS	68
P42	IMPLEMENT SELF-INSPECTION PROGRAMS	65
	ANNOTATE SIGNIFICANT HISTORICAL DATA FORMS (AFTO FORM 95)	65
	ANNOTATE SUPPLY CONTROL LOG FORMS (AF FORM 2413)	65
e139	ANNOTATE TECHNICAL ORDER SYSTEM PUBLICATION IMPROVEMENT	<i></i>
P100	REPORT AND REPLY FORMS (AFTO FORM 22)	65
E120	ANNOTATE DOD SINGLE LINE ITEM RELEASE/RECEIPT DOCUMENT	
	FORMS (DD FORM 1348-1)	65

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TABLE A4

BACKGROUND INFORMATION FOR MANAGEMENT CLUSTER JOB TYPE GROUPS

	F/FB-111 MANUAL TEST STATION SHIFT SUPERVISORS	MANUAL TEST STATION SHOP CHIEFS
NUMBER IN GROUP:	8	15
PERCENT OF CLUSTER:	24%	44%
PERCENT LOCATED OVERSEAS:	50 %	33%
DAFSC DISTRIBUTION:		
326X5A	-	7%
326X5B	-	-
32675	100%	93 %
AVERAGE GRADE:	E-6	E-6
AVERAGE TIME IN SERVICE:	183 MOS	211 MOS
PERCENT SUPERVISING:	100%	100%
PERCENT IN FIRST ENLISTMENT:	NONE	NONE
AVERAGE NUMBER OF TASKS PERFORMED:	84	101
FINDS JOB INTERESTING:	38%	73%
FERLS TALENTS UTILIZED FAIRLY WELL OR		
BETTER:	62%	80%
FEBLS TRAINING UTILIZED FAIRLY WELL OR	5 0 M	0.09
BETTER:	50%	80%
SATISFIED WITH SENSE OF ACCOMPLISHMENT:	25%	60%
PLANS TO REENLIST:	50%	47%
PLANS TO RETIRE:	13%	47%

A7

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REPRESENTATIVE TASKS PERFORMED BY TRAINING PERSONNEL (GRP004, N=18)

.

TASKS		PERCENT MEMBERS PERFORMING
D98	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	83
D116	WRITE TEST QUESTIONS	78
D91	ADMINISTER TESTS	72
D95	CONDUCT RESIDENT COURSE CLASSROOM TRAINING	67
D113	PREPARE LESSON PLANS	67
D115	SCORE TESTS	67
D97	COUNSEL TRAINEES ON TRAINING PROGRESS	67
B31	COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED MATTERS	56
D102	DEVELOP TRAINING AIDS	50
F156	MAINTAIN TECHNICAL ORDER FILES	44
H199	INVENTORY TEST STATIONS OR ROLLAWAYS	39
H197	INSTALL CAPS, PLUGS, OR DUST COVERS ON TEST STATIONS,	
	TEST EQUIPMENT, OR LRU'S	39
F154	MAINTAIN STANDARD AIR FORCE PUBLICATIONS, REGULATIONS, OR	
	MANUALS	33
D114	PROCURE TRAINING AIDS, SPACE OR EQUIPMENT	33
	EVALUATE TRAINING PROGRESS OF RESIDENT COURSE STUDENTS	33
D111	MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS	33
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A8

