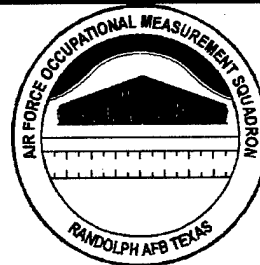




**UNITED STATES  
AIR FORCE**



# **OCCUPATIONAL SURVEY REPORT**



**RADIO COMMUNICATIONS SYSTEMS**

**AFSC 3C1X1**

**OSSN: 2521**

**APRIL 2003**

**20030910 103**

**OCCUPATIONAL ANALYSIS PROGRAM  
AIR FORCE OCCUPATIONAL MEASUREMENT SQUADRON  
AIR EDUCATION and TRAINING COMMAND  
1550 5th STREET EAST  
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## PREFACE

This report presents the results of an Air Force Occupational Survey of the Radio Communications Systems career ladder (AFSC 3C1X1). Authority for conducting an occupational survey is contained in AFI 36-2623. Copies of this report and pertinent computer printouts are distributed to the Air Force Career Field Manager, technical training school, all major using commands, and other interested operations and training officials.

First Lieutenant Toni L. Agnew, Inventory Development Specialist, developed the survey instrument. Second Lieutenant Sabrina Ocampo, Occupational Analyst, analyzed the data and wrote the final report. Mrs. Jeanie Guesman provided computer-programming support, and Ms. Dolores Navarro provided administrative support. Major Jose Caussade, Chief, Enlisted Analysis Section, reviewed and approved this report for release.

Additional copies of this report may be obtained by writing to AFOMS/OAOD, 1550 5<sup>th</sup> Street East, Randolph AFB TX 78150-4449, or by calling DSN 487-5543. For information on the Air Force occupational survey process or other on-going projects, visit our website at <https://www-r.omsq.af.mil/>. (Note: If you experience a Microsoft Word security problem after clicking on the above link, please copy the web address into the Address window in your web browser.)

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**OCCUPATIONAL SURVEY  
RADIO COMMUNICATIONS SYSTEMS  
(AFSC 3C1X1)**

**EXECUTIVE SUMMARY**

- 1. Survey Coverage:** The Radio Communications Systems career ladder was surveyed to obtain current task and equipment data for use in evaluating current training programs. The data will also be used to support specialty knowledge test (SKT) development. Surveys were sent to 873 active duty (AD), 237 Air National Guard (ANG), and 233 Air Force Reserve Command (AFRC) personnel. Survey results were based on 414 AD, 68 ANG and 85 AFRC members responding.
- 2. Specialty Jobs:** Structure analysis identified two clusters and two independent jobs (IJs) within the specialty. This career ladder contains a variety of jobs, but the vast majority of the members are within the Radio Operation Cluster (261 members). The top tasks for this core cluster deal with radio equipment set up and connection and disconnection of cryptographic equipment. There are five jobs within the Radio Operation Cluster. The top tasks for the Combat Crew Cluster (166 members) are dealing with classified or COMSEC materials and reviewing flying schedules. Two jobs were identified within this cluster. A Training/Management IJ and a MILSTAR Operation IJ were also identified.
- 3. Career Ladder Progression:** The Radio Communications Systems career ladder progression is typical for the active duty member. There was a distinction between AD 5- and 7-skill-level members, with the 7-skill-level members performing more managerial and supervisory work. The 9-skill-level ANG and AFRC members are performing a mix of technical and supervisory tasks.
- 4. Training Analysis:** The Specialty Training Standard (STS) for the specialty, dated 1 Feb 2002, was reviewed, and the STS was determined to be well supported by the survey data. A complete review of the STS has been provided to the technical school for evaluation. The Plan of Instruction (POI) for the 3-skill-level course, dated 1 October 2002, was also reviewed. Some STS and POI elements may need to be reviewed for possible inclusion in the STS and/or POI.
- 5. Job Satisfaction Analysis:** In general, job satisfaction among most 3C1X1 personnel was lower than the comparative sample group (3C0X1 and 3C2X1). However, all job satisfaction indicators showed similar trends when compared to the previous OSR. Members identified in the Assembly Job within the Radio Operation Cluster had relatively low job satisfaction ratings and no intention to reenlist.
- 6. Retention Dimensions:** Members in the three TAFMS groups (1-48 months, 49-96 months, and 97+ months) agreed on several factors potentially influencing their decision to reenlist or separate. Top factors for reenlistment include medical and dental care for AD member, job security, and military lifestyle. The top factors for separation include pay and allowances, location of present assignment, and military lifestyle.

## INTRODUCTION

### Air Force Occupational Measurement Squadron (AFOMS)

#### Occupational Analysis Program

Simply put, our mission is to provide occupational data for decision makers, allowing them to make informed personnel, training, and education decisions based not on opinion and conjecture, but on empirical, quantitative data.

#### Survey Development Process

An occupational survey begins with a job inventory (JI) -- a list of all the tasks performed by members of a given Air Force specialty code (AFSC) as part of their actual career field work (that is, additional duties and the like are not included). We include every function that career field members perform by working with technical training personnel and operational subject-matter experts (SMEs) to produce a task list that is complete and understandable to the typical job incumbent. The SMEs write each task to the same level of specificity across duty areas, and no task is duplicated in the task list.

In addition to this comprehensive task list, job inventories include a number of background questions that deal with demographic information, job satisfaction, equipment usage, and any other area that our customers, such as Career Field Managers (CFMs) and technical school personnel, may request.

Furthermore, the JI is only one of the surveys that AFOMS produces. The JI task list is used in creating several other surveys that are important for developing and refining career field training programs and for developing career field promotion tests; these surveys and how their results are used will be described shortly.

#### Survey Administration

The sample of members who receive the JI primarily depends on the size of the career ladder. We typically survey 100% of all eligible members in career ladders numbering 3,000 or fewer assigned members. For career ladders larger than 3,000 members, we select a random sample of half of the eligible members, and for very large career ladders we may sample one-third of all the eligible members. Return rates (the percentage of completed, usable surveys we receive back from the field) generally run between 50% - 70% or greater. All this combines to produce very large and very representative samples in almost every study we conduct, compared to the samples obtained by private commercial surveying and marketing firms, and this in turn leads to highly accurate information about the work and demographics of the career field.

Responding to the JI can be somewhat time-consuming when the number of tasks is large, but it is a simple process. Respondents are asked to examine each task and select each task that they perform in their present job. They are then asked to rate each task they chose on a scale of 1 to 9

(unchosen tasks are given a 0 rating), according to how much relative time they spend performing that task in their present job, compared to all the other tasks in the inventory. These ratings are converted into estimates of actual relative job time spent performing each task.

### Survey Analysis

Survey responses are processed using a set of computer programs called the Comprehensive Occupational Data Analysis Programs (CODAP). We are able to calculate some important basic information about each task from the information that respondents provide in the JI: the Percent Members Performing (PMP) and the Percent Time Spent (PTS). CODAP forms groups of survey respondents according to the similarity of their task performance, and our analysts study these groupings to identify distinct jobs. Further, we can provide PMP and PTS information for any subgroup. For example, we can easily determine the percent of E-5s or 3-skill-level or first-term airmen who perform each task, and estimate the average amount of job time they spend performing it. This is important because many of the applications of our data target particular subgroups within the career ladder.

### Uses of Survey Data

Survey results are formally reported in an **Occupational Survey Report (OSR)** -- what you are currently reading -- but the OSR is by no means the only product of an occupational survey study. The OSR provides a high-level "snapshot" of an entire AFSC in a compact package, but it is not intended to provide the comprehensive information needed to support important decisions about a career field. That is the purpose of "data extracts," which are comprehensive, detailed sets of CODAP-generated reports designed for particular applications.

**The Training Extract** -- AFOMS survey data are essential to technical training personnel. The training extract provides information about what career ladder incumbents are actually doing in their jobs at each stage of their career, along with supporting information regarding when and how members should be trained to perform their jobs. The data found in the training extract regarding first-job, first-term, and 3-skill-level members are the *primary source of empirical information* available to support such decisions.

In addition to the JI, AFOMS produces two other surveys that directly support the training community. Depending on the size of the career ladder, a sample of at least 50 (and frequently 100 or more) 7-skill-level craftsmen is selected to complete a Training Emphasis (TE) survey. A similar-sized sample of other 7-skill-level craftsmen is selected to complete a Task Difficulty (TD) survey.

The TE survey, like the JI, contains the complete career ladder task list, and, like the JI, respondents are asked to rate tasks on a 1 to 9 scale (tasks not rated by the respondent are assigned a "0" rating). Unlike the JI, however, respondents are asked to rate tasks based on how much emphasis they believe should be placed on that task for entry-level structured training. A "1" rating indicates the respondent's belief that very little emphasis be placed on providing structured training on that task. A rating of "9" indicates that it is essential to provide structured

training on the task. Structured training is defined as resident technical schools, field training detachments, mobile training teams, formal on-the-job training (OJT), or any other organized training method. The responses of the entire sample of raters are averaged for each task, and the result is a TE rating for each task.

The TD survey also contains the full task list and requests that respondents rate each task *with which they are familiar* on a scale of 1 to 9 ("1" is low, "9" is high), but this time respondents are asked to rate the amount of time needed to learn to perform that task satisfactorily. In other words, as the name implies, TD is an indicator of how difficult the task is to learn to do. The average TD rating for each task in the inventory is standardized with a mean rating of 5.0 and a standard deviation of 1.0.

When used in conjunction with the PMP and PTS for first-enlistment members, average TE and TD ratings provide insight into the appropriate training requirements for new personnel in the career ladder. These four indices (PMP, PTS, TE, and TD) are used to compute a composite index, the Automated Training Indicator (ATI), for each task. The ATI expresses in a single number between 1 and 18 the most appropriate training setting and approach for providing training for that task. ATIs allow training developers to quickly focus attention on those tasks that are most likely to qualify for resident course consideration. Further information concerning TE and TD ratings and ATIs for the entire task list can be found in the training extract that accompanies this OSR.

The major users of training extract information are attendees at Utilization and Training Workshops (U&TWs). The U&TW is a summit of representative career ladder, training, and classification leaders who evaluate current training efficiency and effectiveness in order to propose and approve changes to the Specialty Training Standard (STS) or course training standard (CTS), particularly with regard to 3-skill-level training, and to address utilization issues. The AFSC's job description in Attachment 6 of AFMAN 36-2108, *Enlisted Classification*, is also reviewed and appropriately revised with regards to the survey data to reflect the jobs being performed by the career ladder members.

Part of the process of compiling the training extract involves the *STS matching* process, during which technical school personnel match JI tasks to STS elements; that is, they tell us what particular task or tasks correspond to each STS element when it is covered in training. This is especially useful when STS performance codes are being reviewed for the 3-skill-level course. For example, the U&TW attendees might be asked to consider adding a task performance code to an STS element that previously has been trained only to a knowledge level. JI, TE, and TD data, combined in the form of the ATI, are important in determining the appropriate proficiency code. Separate training extracts are produced for Active Duty (AD), Air National Guard (ANG), and Air Force Reserve Component (AFRC) members.

**The Specialty Knowledge Test (SKT) Extract** -- AFOMS survey data are key to ensuring that SKTs are valid. SKTs are an important part of the Weighted Airman Promotion System (WAPS). Because an airman's test score is frequently the deciding factor in determining who is promoted, SKTs must be valid, fair, and credible.

In terms of SKTs, *valid* means that every question on the test is tied to a task which has been shown to be important to successful performance in the specialty. This tie is crucial to documenting the validity of SKT content.

AFOMS surveys provide test writers with information on the PMP, PTS, TD, and TE. This information is combined to produce a composite index called the predicted testing importance (PTI). Those tasks that are rated highest in PTI are ones that tend to be high in all four of our primary indices -- PMP, PTS, TD, and TE -- exactly the kinds of tasks that one would generally consider job-essential and that should form the basis for test questions. PTI information is used for minor test revisions; how it is used will be explained shortly.

Field-validated testing importance (FVTI) data are produced for major test revisions. Approximately 6 months before the start of test development, a sample of 100 senior career field NCOs is sent a survey containing a list of the 150-200 tasks rated highest in PTI. Respondents are asked to provide a 1-7 rating ("1" is low, "7" is high) of how important they believe it is to include a question concerning that task on the SKT. The responses are averaged for each task, yielding the FVTI index -- a direct measure of the opinions of career field experts as to what constitutes "job-essential" knowledge.

PTI and FVTI information is included in the SKT extract, which is specifically tailored for use by the SKT teams who come to AFOMS to write the promotion examinations. Two sets of reports are prepared -- one set uses only data for E-5s and the other uses combined data for E-6s and E-7s. Each report gives the SKT team information on every task PMP, PTS, and PTI, and, for major test revisions, FVTI data. Occupational survey data are thus the only objective source of information available to the team regarding how to make the test they write meet legal requirements for validity and fairness.

**The Analysis Extract** -- The analysis extract is an archive of all the data collected in the course of a study that are not incorporated into one of the other extracts. We typically produce separate analysis extracts for AD and ANG/AFRC members. The analysis extract is usually an enormous document, a compilation of the many reports that "slice and dice" the data in virtually every potentially useful way. Just about any question anyone has regarding career ladder work, personnel, or training and utilization issues can be answered by consulting one or another of the reports in the analysis extract.

**The OSR** -- This document, the OSR, captures survey data and analysis both in breadth and depth. For ease of reading, the first half of the OSR concentrates on breadth with compelling factors and implications across the specialty. Tables following the narrative show depth with regard to these factors and implications. Where appropriate, highlights of the tables are contained in the body.

**OCCUPATIONAL SURVEY REPORT (OSR)  
RADIO COMMUNICATIONS SYSTEMS  
(AFSC 3C1X1)**

This is a report of an occupational survey of the Radio Communications Systems career ladder, conducted by the Occupational Analysis Flight, AFOMS. The OSR reports the findings of current data that are available for use in guiding the development and evaluation of training and support planned changes within this career ladder. In addition, the data are used to support SKT development. The previous OSR was completed in February 2000.

Career Ladder Background

According to the specialty description in AFMAN 36-2108, *Enlisted Classification*, dated 31 October 2002, personnel in this career ladder operate radio and satellite communications systems and computer terminals. They tune transmitters, receivers, or transceivers to required signals on prescribed frequencies, and they adjust communications systems equipment, antenna systems, and terminal equipment to provide voice, digital, or analog operations. Personnel process communications traffic and copy transmissions from air and ground stations. Radio Communications Systems members process and relay operational and administrative messages, including flight, command, and control information, and weather data. They encode and decode classified messages and account for classified or controlled documents, equipment, and communications security materials. They maintain codes, authentication systems, communications directives and publications, and frequency propagation data.

The initial technical training school for this AFSC is located at Keesler AFB MS. The E3ABR3C131 003, Radio Communications Systems Apprentice course is 6 weeks and 1 day long and provides graduates with the knowledge and skills for the following principles and activities:

- Training in keyboarding, radio wave concept, characteristics of wave travel and propagation
- Training on application of radio emissions, introduction into computer technology, communications agencies, and security
- Training on high frequency (HF), very high frequency (VHF), ultra high frequency (UHF), and extremely high frequency (EHF) systems
- Training on air-ground-air and point-to-point communications by voice record and log keeping
- Training on inspections, minor maintenance, tuning and operation of ground transceivers and familiarization with transceiver principles and antenna systems

Entry into AFSC 3C1X1 requires an Armed Forces Vocational Aptitude Battery (ASVAB) "Administrative" score of 45 and a Strength Factor of "J" (weight lift of 60 lb). For entry, award, and retention of this AFSC, personnel must be able to speak English distinctly. For award and retention of this AFSC, personnel must be eligible for a Secret security clearance according to AFI 31-501, *Personnel Security Program Management*. Finally, AFSC 3C1X1 is open to United States citizens and United States nationals only.

## **SURVEY METHODOLOGY**

### **Inventory Development**

The data collection instrument for this occupational survey was USAF job inventory (JI) occupational survey study number (OSSN) 2521, dated May 2002. During the development of the comprehensive task list, 28 subject-matter experts from 5 operational bases and 1 training unit were interviewed. The survey requested standard background information such as base of assignment; command of assignment; TAFMS, TICF, and TIPJ; job title; work or functional area; paygrade; job satisfaction and reenlistment intentions. Additional background items concerned the number of deployments and days TDY; paygrade at which the member entered this AFSC if retrained from another specialty; communications modes or systems used or operated; and communications equipment used or operated. The inventory listed 370 tasks grouped under 13 duty headings and a background section. (The complete task list is available on the CD containing the products from this study.)

<u>BASE</u>	<u>REASON FOR VISIT</u>
Keesler AFB MS	Technical training school
Hurlburt Field FL	AFSOC mission
Peterson AFB CO	Large population and MILSTAR satellite communications centers
Barksdale AFB LA	Combat Crew Communications mission
Lackland AFB TX	Aeromedical Evacuation Squadron
Andrews AFB MD	Mystic Star ultra-high frequency operations & System Information and Telecommunications System

### **3C1X1 Survey Administration**

From June to September 2002, survey control monitors at the technical training school and operational bases administered the inventory to all eligible DAFSC 3C131, 3C151, 3C171, and 3C191 AD, ANG, and AFRC personnel. Members ineligible to take the survey included the following: (1) hospitalized members; (2) members in transition for a permanent change of station; (3) members retiring within the time the inventories were administered to the field; and (4) members who had been in their present jobs for less than 6 weeks. Participants were selected from a computer-generated mailing list obtained from data tapes maintained by the Air Force Personnel Center, Randolph AFB TX.



### Survey Sample

The data on survey returns were examined to ensure that the final sample reflected an accurate representation across major commands (MAJCOMs), paygrades, and skill levels. Table 1 shows the distribution of the survey sample by MAJCOM, while Table 2 displays the survey distribution by paygrade groups. Table 3 shows the final sample distribution by skill level. Table 4 displays the component characteristics for the AD, ANG, and AFRC members in the final sample.

TABLE 1

MAJCOM REPRESENTATION OF TOTAL SAMPLE		
COMMAND	PERCENT OF ASSIGNED*	PERCENT OF SAMPLE
ACC	16	22
AFRC	17	15
AFSOC	7	7
AFSPC	7	10
ANG	18	12
AMC	25	27
OTHER**	6	3
PACAF	2	2
USAFE	2	2
TOTAL ASSIGNED*		1,530
TOTAL ELIGIBLE***		1,343
TOTAL SURVEYS MAILED		1,343
TOTAL IN SAMPLE		567
PERCENT OF ASSIGNED IN SAMPLE		37%
PERCENT OF ELIGIBLE IN SAMPLE		42%
PERCENT OF MAILED IN SAMPLE		42%

\* As of 31 May 02

\*\* Percentages in "Other" include Air Education and Training Command, United States Special Operations Command, and United States Strategic Command.

\*\*\* Excludes those personnel in PCS, student or hospital status, or with less than 6 weeks on the job

TABLE 2

PAYGRADE DISTRIBUTION OF SAMPLE		
PAYGRADE	PERCENT OF ASSIGNED*	PERCENT OF SAMPLE
E-1 - E-2	4	1
E-3	20	20
E-4	23	26
E-5	21	23
E-6	17	15
E-7	13	14
E-8	2	1

\* Assigned as of May 02

TABLE 3

SKILL-LEVEL DISTRIBUTION OF SAMPLE		
SKILL-LEVEL	PERCENT OF ASSIGNED*	PERCENT OF SAMPLE
3C131	22	19
3C151	48	53
3C171	28	26
3C191	3	2

\* Assigned as of May 02

Note: Columns may not add up to 100% due to rounding

TABLE 4

COMPONENT CHARACTERISTICS			
	<u>AD</u>	<u>ANG</u>	<u>AFRC</u>
ASSIGNED*	996	268	266
SURVEYED	873	237	233
SAMPLE	414	68	85
% OF SURVEYED	47	29	36

\* Assigned as of May 02

The command, paygrade, and skill-level distributions of the survey sample are close to the percent assigned indicating that the sample is a true representation of the career ladder population assigned to the MAJCOMs.

### 3C1X1 JOB STRUCTURE

The first step in the analysis process is to identify the career ladder structure in terms of the jobs performed by the respondents. CODAP creates an individual job description for each respondent based on the tasks performed and relative amount of time spent on these tasks. The CODAP automated job clustering program then compares all the individual job descriptions, locates the two descriptions with the most similar tasks and time spent ratings, and combines them to form a composite job description. In successive stages, CODAP either adds new members to this initial group or forms new groups based on the similarity of tasks and time spent ratings. Human analysis of the final output, aided by additional measures of similarities and differences between groups, determines the final job structure of the career field as described here.

The basic group used in the hierarchical clustering process is the Job. When two or more jobs have a substantial degree of similarity in tasks performed and time spent on tasks, they are grouped together and identified as a Cluster. Jobs not falling within any cluster are identified as Independent Jobs (IJs). The structure of the career ladder is then defined in terms of clusters, jobs, and independent jobs. The job structure resulting from this grouping process (the various jobs within the AFSC) can be used to evaluate the changes that have occurred in the AFSC since the previous OSR. It can also be used to guide future changes in the AFSC. The above terminology will be used in the discussion of the 3C1X1 career ladder.

#### Specialty Jobs

Based on the analysis of tasks performed and the amount of time spent performing each task, two clusters and two independent jobs were identified within the Radio Communications Systems career ladder. Figure 1 shows this job structure. A written outline of the job structure follows. The stage (STG) number shown beside each title refers to computer-generated tracking information of no importance to the reader. The letter "N" represents the number of members in each group. Tables 5-10 (at the end of this report, following the narrative) provide detailed descriptions of the clusters and jobs listed below, including demographic information and representative tasks that members perform. In addition, the tables show some distinguishing tasks performed by members of jobs identified within clusters.

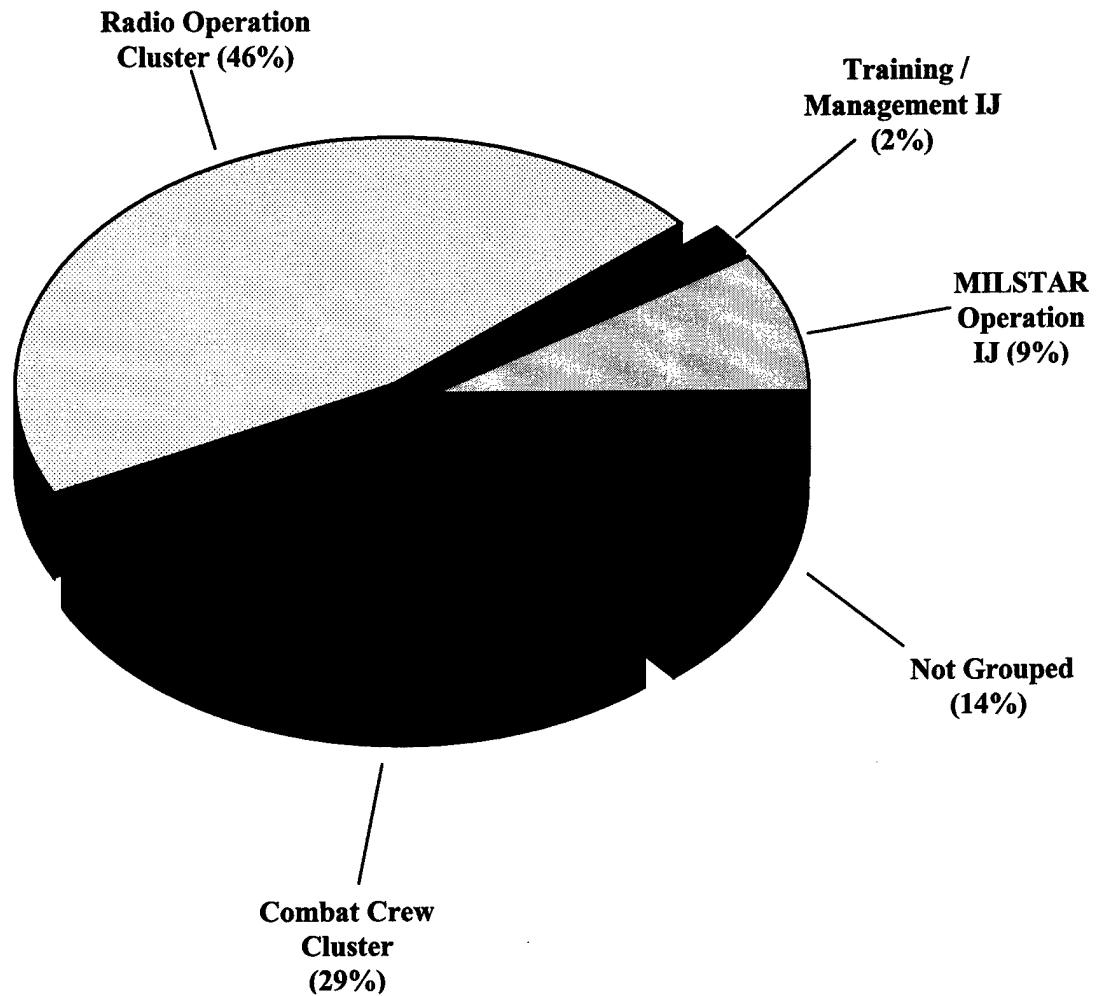
#### I. RADIO OPERATION CLUSTER (STG 24, N=261)

- A. ASSEMBLY JOB (STG 113)
- B. CONFIGURATION JOB (STG 76)
- C. RADIO MAINTENANCE JOB (STG 126)
- D. RADIO OPERATION JOB (STG 73)
- E. GLOBAL SYSTEM JOB (STG 82)

- II. COMBAT CREW CLUSTER (STG 49, N=166)
  - A. COMBAT CREW JOB (STG 77)
  - B. TRAINING JOB (STG 72)
- III. TRAINING/MANAGEMENT IJ (STG 86, N=10)
- IV. MILSTAR OPERATION IJ (STG 109, N=49)

Table 11, at the end of this narrative, displays time spent on duties by the members within these clusters, jobs within the clusters, and independent jobs.

**AFSC 3C1X1 CAREER LADDER SPECIALTY JOBS  
(N=567)**



**FIGURE 1**

### Members Not Grouped

- Remaining 14% of survey sample did not group with any cluster or independent job
  - Survey respondents sometimes do not fall into an identified job because they perform fewer tasks or mark the same tasks but give considerably different time spent ratings for those tasks
  - In addition, there may not have been enough individuals performing the same combination of tasks to warrant identification of a job
  - Members not grouped into any clusters or independent jobs were holding a variety of jobs, such as MILSTAR System Operator, Satellite Manager, Maintenance Control Technician, and Payload System Operator. Others not grouped were taking on additional duties, such as work group manager, readiness NCO, and acting first sergeant
  - Important point to note is that all major AFSC functions are covered in identified clusters and independent jobs

### Comparison of Current Specialty Jobs to Previous Survey

Results of the specialty job analysis were compared to those of the previous OSR, published in 2000. As shown in Table 12, the jobs found in this report mirror those found in the previous study, with a few exceptions.

The main cluster, the Radio Operation Cluster, contains several jobs that were likely encompassed by independent jobs in the previous study, such as Global High Frequency Supervisor Job and Operations Center Technician, which were identified in the Radio Operation Cluster as Global System Job and Radio Operation Job in the current study. Another distinction between the 2000 and the current study includes the MYSTIC Star Operator Job which is not discerned in this survey report.

- Jobs in which 3C1X1 members were identified in the 2000 study were also identified in current study to a large extent, such as the previous Management and Supervisor Cluster being identified in the current OSR as the Training/Management IJ. The previous Combat Crew Communications Job was identified in the current study as the Combat Crew Cluster
  - Overall nature of the 3C1X1 career ladder has not changed a great deal since the previous study

## SKILL AND EXPERIENCE ANALYSIS

An analysis of DAFSC groups in conjunction with the analysis of the career ladder structure is an important part of each OSR. This information may be used to evaluate how well career ladder documents, such as AFMAN 36-2108, *Enlisted Classification*, reflect what career ladder personnel are actually doing in the field.

### TOTAL SAMPLE

#### Jobs

Table 13 – Distribution of skill-level members across career ladder clusters and jobs:

- Majority of 3-, 5-, and 7-skill-level members were found performing work as described in the Radio Operations Cluster
- Most DAFSC 7-skill-level members were found in the Training/Management II
- Majority of 9-skill-level members were found performing tasks in the Combat Crew Cluster

#### Duties

Table 14 – Time spent on duties by members of skill-level groups:

- Members in the 3- and 5-skill-level groups spend most of their time performing tasks in Duty A (Setting Up Radio Equipment) and Duty I (Performing General Administrative and Technical Order (TO) System Activities)
- 7- and 9-skill-level members spend much more time performing management and supervisory activities (Duty M)
- No information will be noted on AD members in the 9-skill level group due to only two members responding to the survey
- Overall, the most time spent on duties by members of AFSC 3C1X1 are found in Duty A (Setting Up Radio Equipment)



## AD

### Duties

Table 15 – Time spent on duties by AD members of skill-level groups:

- AD 3-skill-level members spend most of their time performing tasks in Duty A (Setting Up Radio Equipment) and Duty I (Performing General Administrative and Technical Order (TO) System Activities)
- AD 5- and 9-skill-level members spend most of their time performing tasks in Duty I (General Administrative and Technical Order (TO) System Activities) with 9-skill-level members spending 44% of their time on this duty
- AD 7-skill-level members spend the majority of their time performing tasks in Duty M (Performing Management and Supervisory Activities), significantly more than all other skill-level members

### Tasks

Table 16 – Tasks performed by AD AFSC 3C131 members:

- Tasks being performed by highest percentages of 3-skill-level members are in Duties A and I (Setting Up Radio Equipment and Performing General Administrative and Technical Order System Activities, respectively)

Table 17 – Tasks performed by AD AFSC 3C151 members:

- Tasks being performed by highest percentages of 5-skill-level members show the career ladder is heterogeneous at this skill level with only six tasks performed by 50% of members

Table 18 – Tasks performed by AD AFSC 3C171 members:

- Heavy emphasis on supervisory and managerial activities at this skill level
- No data will be displayed for the AD 9-skill-levels due to only two members responding

## ANG

### Duties

Table 19 – Time spent on duties by ANG members of skill-level groups:

- ANG members at the 5-skill level spend the majority of their time performing tasks in Duty A (Setting Up Radio Equipment), a significant difference from AD 5-skill-level members who spend most of their time in Duty I (Performing General Administrative and Technical Order (TO) System Activities)
- ANG 7-skill-level members spend most time performing tasks in Duty I (Performing General Administrative and Technical Order System Activities), with the second highest amount of time spent in Duties A and F (Setting Up Radio Equipment and Performing Combat Crew Communications Activities, respectively)
- ANG 9-skill-level members spend 23% of their time performing tasks in Duty M (Performing Management and Supervisory Activities), significantly more than ANG 5- and 7-skill-level members

### Tasks

Table 20 – Tasks performed by ANG AFSC 3C151 members:

- Tasks being performed by highest percentages of 5-skill-level members are in Duty A (Setting Up Radio Equipment)

Table 21 – Tasks performed by ANG AFSC 3C171 members:

- A high percentage of the ANG 7-skill-level members are performing tasks associated with classified or COMSEC materials. The majority of the tasks being performed by over 50% of members are in Duties A (Setting Up Radio Equipment) and Duty I (Performing General Administrative and Technical Order (TO) System Activities, respectively)

Table 22 – Tasks performed by ANG AFSC 3C191 members:

- Tasks being performed by highest percentage of 9-skill-level members show the career ladder is homogeneous at this skill level with the majority of the tasks being performed by all members. A high number of tasks being performed are in Duty F (Performing Combat Crew Communications Activities) and some management tasks are also being performed at this skill level

## AFRC

### Duties

Table 23 – Time spent on duties by AFRC members of skill-level groups:

- Overall, AFRC 3C1X1 members spend a high amount of time performing tasks in Duty A (Setting Up Radio Equipment)
- AFRC 5-skill-level members spend the majority of their time Setting Up Radio Equipment (Duty A)
- AFRC 7-skill-level members spend most of their time Performing General Administrative and Technical Order System Activities (Duty I)
- AFRC 9-skill-level members spend the majority of their time Performing Mobility and Contingency Activities (Duty K) and Performing Training Activities (Duty L)

### Tasks

Table 24 – Tasks performed by AFRC AFSC 3C151 members:

- Tasks being performed by highest percentages of 5-skill-level AFRC members are very similar to tasks being performed by 5-skill-level ANG members, with the majority of the members performing tasks in Duty A (Setting Up Radio Equipment)

Table 25 – Tasks performed by AFRC 3C171 members:

- AFRC 7-skill-level members are performing more technical tasks as opposed to the AD 7-skill-level members. Tasks performed by highest percent of 7-skill-level members are in Duty I (Performing General Administrative and Technical Order (TO) System Activities)

Table 26 – Tasks performed by AFRC 3C191 members:

- Members in this skill level are performing tasks associated with mobility and contingency activities (Duty K) and Performing Training Activities (Duty L)

## TRAINING ANALYSIS

Occupational survey data are a source of information that can assist in the development or evaluation of training programs for both entry-level and advanced members. In particular, the factors used to evaluate entry-level member training include the jobs that are being performed by first-enlistment personnel (1-48 months' TAFMS), the overall distribution of first-enlistment personnel across career ladder jobs, the percent of first-enlistment members who perform specific tasks, and ratings of relative training emphasis (TE) and task difficulty (TD). (TE and TD ratings are discussed in the Task Factor Administration section of this OSR.)

### WHAT ENTRY-LEVEL MEMBERS NEED TO KNOW

#### First-Enlistment Personnel (1-48 months' TAFMS)

N=216 (38% of sample)

#### Jobs

Figure 2 – Distribution of first-enlistment personnel across specialty clusters and jobs:

- Decrease of 5% in Radio Operation Cluster and a increase of 5% in Combat Crew Cluster versus jobs for the total sample (Figure 1)

#### Duties

Table 27 – Relative time spent on duties:

- Top duties include Duty I (Performing General Administrative and Technical Order (TO) System Activities) and Duty A (Setting Up Radio Equipment)

#### Tasks

Table 28 – Representative tasks performed

### Equipment Used or Operated

Table 29 – Fixed Communications Systems

Table 30 – Deployable Communications Systems

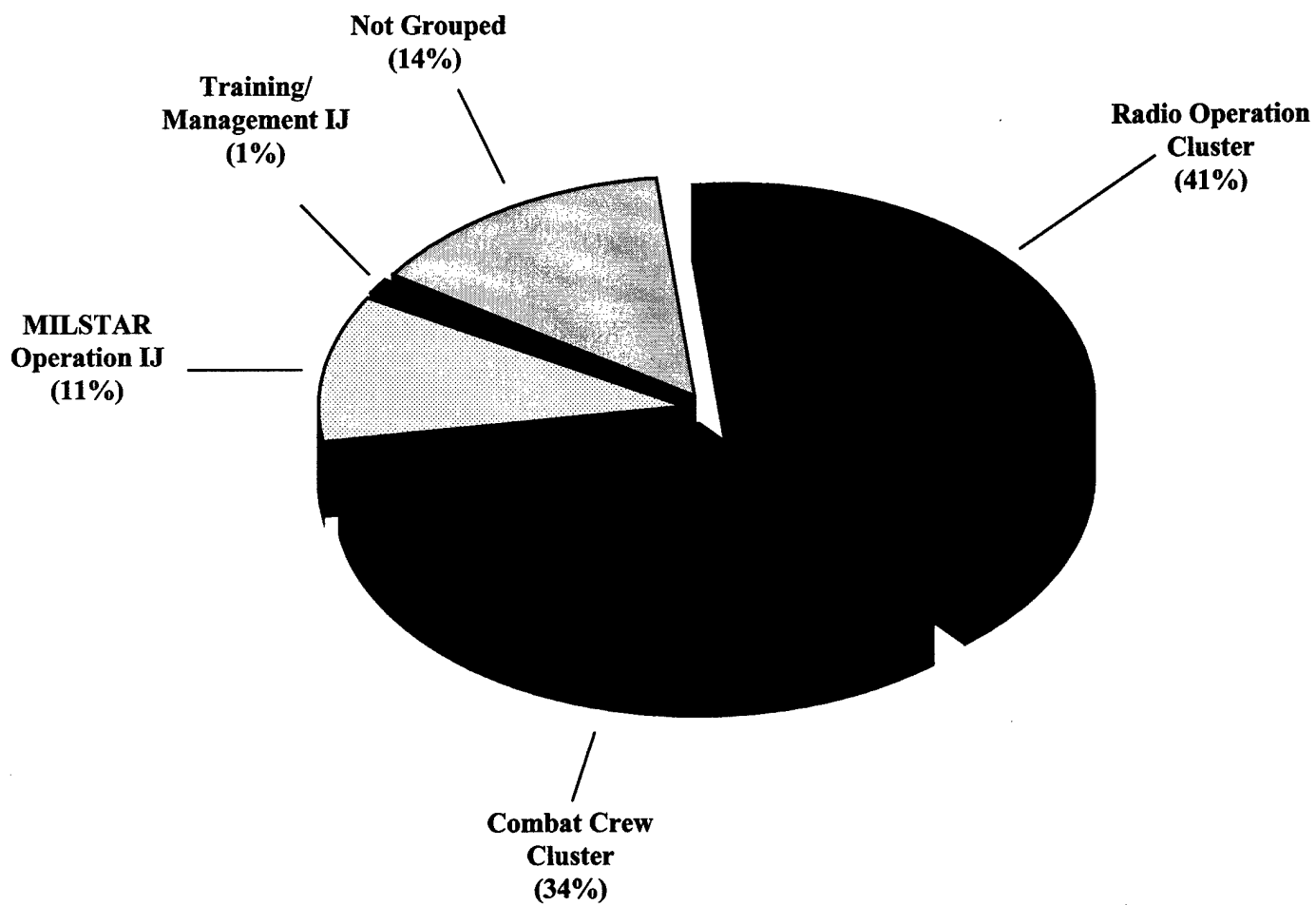
Table 31 – Frequency Bands

Table 32 – Communications Modes

Table 33 – Mobile Communications Systems

Table 34 – Communications Equipment

**DISTRIBUTION OF AFSC 3C1X1 FIRST-ENLISTMENT  
PERSONNEL ACROSS SPECIALTY JOBS  
(N=216)**



**FIGURE 2**

## **TASK FACTOR SURVEYS**

Job descriptions alone do not provide sufficient data for making decisions about career ladder documents or training programs. Task factor information, along with data from the specialty training standard (STS) and plan of instruction (POI), is needed for a complete analysis of the career ladder. To obtain the needed task factor data, selected DAFSC 3C1X1 members (generally E-6 or E-7 craftsmen) completed either a training emphasis (TE) or task difficulty (TD) survey. These training documents (STS and POI) were reviewed by matching survey tasks to STS elements, then examining task performance, TE data, and TD data for the matched tasks.

### **Task Factor Administration**

TE and TD data can help training development personnel decide which tasks to emphasize for entry-level, structured training (resident technical schools, field training detachments, mobile training teams, formal OJT, or any other organized training method). For example, tasks receiving high TE and TD ratings generally warrant resident training if they are also performed by a moderate-to-high percentage of first-enlistment members. Tasks receiving high TE and/or TD ratings but being performed by relatively low percentages of first-enlistment members may be more appropriately planned for structured OJT programs within the career ladder. Low TE and/or TD ratings may highlight tasks best omitted from training for new personnel. These task factors are, of course, not the only ones to weigh in making training decisions; the percentages of personnel performing the tasks, command concerns, the criticality of the tasks, and other important factors must also be carefully considered.

**Training Emphasis (TE)** — Training Emphasis data were not used in this study due to poor agreement among the respondents asked to complete a TE survey.

**Task Difficulty (TD)** — amount of time needed to learn to perform that task satisfactorily:

- Thirty DAFSC 7-skill-level senior NCOs rated the difficulty of tasks in the inventory using a scale from 1 (extremely low difficulty) to 9 (extremely high difficulty)
- TD ratings are normally adjusted so that tasks of average difficulty have a value of 5.00 and a standard deviation of 1.00
- Any task with a difficulty of 6.00 or greater is therefore considered difficult to learn

**Table 35** – Tasks with highest TD ratings:

- Lists percent members performing these tasks by 1-24 months' and 1-48 months' TAFMS groups, as well as members of the 3-, 5-, and 7-skill-level groups
- Tasks within Duty A (Setting Up Radio Equipment) and Duty M (Performing Management and Supervisory Activities) received the highest TD ratings. A total of 59 tasks were rated with a high TD rating. Table 35 lists 22 of the 59 tasks that had the

highest TD, such as cut antenna lengths and write staff studies, surveys, or routine reports, other than training or inspection reports

## **WHAT DO 3C1X1 TRAINING DOCUMENTS REFLECT?**

### **Specialty Training Standard (STS) Analysis**

Technical school personnel from the 336th Training Squadron, Keesler AFB MS, matched JI tasks to STS items. The STS was dated Feb 2002. Per AETCI 36-2601, dated 14 July 1999, STS elements that are performed by at least 20% of members in appropriate skill-level groups [particularly first-job (1-24 months' TAFMS) members and first-enlistment (1-48 months' TAFMS) members] should be included in the STS. Of course, these are not the only criteria for inclusion in the STS, and other rational considerations may argue against inclusion. Likewise, proficiency-coded elements matched to tasks with less than 20% performing in first-job and first-enlistment groups should be closely reviewed by subject-matter experts for possible deletion from the STS, unless other considerations (such as mission criticality or criticality to a particular MAJCOM) argue for inclusion of these "unsupported items." As stated above, several tasks not referenced to the STS with at least 20% of the first-job or first-enlistment members performing should be reviewed by training personnel for possible addition to the STS.

#### **Table 36 – STS element not supported by survey data:**

- One task matched to an STS element with a "2b" proficiency code was performed by less than 20% of job incumbents in their first job or first enlistment; this task should be reviewed for removal from the STS

#### **Table 37 –Tasks performed by 20% or more members in their first-job or first-enlistment but not referenced to any STS element:**

- Tasks not referenced to STS elements include configuring transceivers for clear or secure voice operation; identifying and reporting equipment or supply problems; inventorying equipment, tools, parts, or supplies; preparing equipment for deployment; and processing classified or COMSEC materials or documents at deployed locations
- A complete listing of tasks not referenced to the STS can be found at the end of the STS report in training extract; these tasks should be reviewed for possible addition to STS

Overall, the STS is very well supported by the survey data. Only one STS item was not supported, and five unreferenced JI tasks were performed by more than 20% of the first-job or first-enlistment members.



### Plan of Instruction (POI) Analysis

In addition to the STS, the POI for a course may also have unsupported objectives (included in the course but performed by few first-term airmen.) Personnel from the 336 TRS also matched JI tasks to related training objectives in the POI for the entry-level course. POI blocks, units of instruction, and learning objectives were then compared to the standard set forth in AETCI 36-2601. This document indicates that tasks trained in the course but not performed by at least 30% of first-enlistment members should be considered for elimination from the course, unless other rational considerations argue for inclusion. This is especially so if TE ratings for the task are not particularly high.

Table 38 – POI objectives not supported by survey data with less than 30% members performing tasks matched to those objectives:

- Unsupported POI objectives include tasks such as setting up antenna masts, siting radio antennas or equipment, and reconfiguring antennas
- A complete listing of POI objectives and tasks matched to those objectives can be found in the POI report in the training extract; these POI objectives should be reviewed for possible revision

Table 39 – Tasks performed by 30% or more members but not referenced to any POI objective:

- Tasks not referenced that are performed by 30% or more first-job or first-enlistment members include connecting or disconnecting cryptographic equipment; verifying keying of cryptographic equipment; assembling, issuing, retrieving, or breaking down of daily training communication kits; and assembling, issuing, retrieving, or breaking down exercise or contingency conventional communication kits
- A complete listing of tasks not referenced to the POI can be found at the end of the POI report in the training extract; these tasks should be reviewed for possible addition to POI

Overall, the POI is very well supported by the survey data. Only one unsupported POI objective was identified, and five unreferenced tasks being performed by more than 30% of the first-job or first-enlistment members were identified.

## JOB SATISFACTION ANALYSIS

An examination of job satisfaction indicators can give career ladder managers a better understanding of factors that may affect the job performance of career ladder airmen. The survey included attitude questions covering job interest, perceived utilization of talents and training, sense of accomplishment from work, and reenlistment intentions.

### Job Satisfaction

Overall = Good

Table 40 - Job satisfaction data by job groups identified in **3C1X1 JOB STRUCTURE** section of this report reveals:

- Assembly Job – very low job satisfaction overall compared to the remaining jobs within the Radio Operation Cluster and lowest sense of accomplishment with 100% of members responding that they are dissatisfied with the sense of accomplishment gained from their job
- Training/Management IJ – highest rate of reenlistment intentions (40%)
- Assembly Job, Configuration Job, and MILSTAR Operation IJ – lowest reenlistment intentions compared to all other jobs within the Radio Operation Cluster and with other jobs within the sample
- Training Job – expressed highest job interest (59%)

Table 41 displays comparative job satisfaction data between the current 3C1X1 OSR data and members from similar AFSCs surveyed in the previous 12 months. (Two AFSCs met this criterion – AFSC 3C0X1 and AFSC 3C2X1.) The results from the comparison data are summarized below:

- Overall, job satisfaction ratings for the 3C1X1 members are much lower compared to the ratings from 3C0X1 and 3C2X1 members. Twenty-five percent of the members in the 1-48 months' TAFMS group indicated that they found their job interesting, while 45% found their job to be dull. In the 49-96 months' TAFMS group, none of the 3C1X1 members perceive their use of talent to be "excellent to perfect", and 38% found their job interesting. The 97+ months' TAFMS group rated all five job satisfaction indicators the highest of the three TAFMS groups
- "Perceived use of training" for 3C1X1 97+ months' TAFMS group is rated slightly higher compared to the 3C0X1 and 3C2X1 members' ratings

Table 42 displays job satisfaction data for the AD, ANG, and AFRC members. The results for the three components are summarized below:

- There are four job satisfaction indicators (Expressed Job Interest, Perceived Use of Talents, Perceived Use of Training, and Sense of Accomplishment From Job). Overall, satisfaction ratings for the ANG members are higher than the AD and AFRC members, especially for job interest and sense of accomplishment from job.

Table 43 compares job satisfaction data for the current 3C1X1 OSR data and the 2000 3C1X1 survey. The results of the comparison are summarized below:

- Overall, job satisfaction ratings for the 3C1X1 members in the current study are slightly lower compared to the 3C1X1 members in the previous study
- Reenlistment intentions for 3C1X1 second-term airmen in the current study are comparable to their reenlistment intentions in 2000

## RETENTION DIMENSIONS

JIs also routinely collect information about factors that affect reenlistment and separation decisions. That is, respondents who say that they are likely to reenlist at the end of their present term (and those not eligible for retirement) are asked to indicate whether each of 31 different factors will have any effect on their intended decision and, if so, the degree to which each factor may influence their decision to reenlist. Respondents who indicate that they are likely to separate at the end of their present term (and those not eligible for retirement) are asked to indicate whether each of 31 different factors will have any effect on their intended decision and, if so, the degree to which each factor may influence their decision to separate. The degree is indicated on a 3-point scale ranging from "slight influence" to "strong influence."

### Reenlistment

Table 44 – Lists the 31 factors in the order they appeared in the survey. Also shown is the percent selecting each factor and the average rating for each factor by TAFMS group based on how much each factor may influence their decision to reenlist:

- Top 5 reasons members may choose to reenlist based on the highest percentages selecting each factor are listed below Table 44
  - For the first- and second-enlistment groups, medical/dental care for AD member was the top reason for reenlistment
  - For 97+ months' TAFMS group, the top reason for reenlistment was retirement benefits
  - Off-duty education or training opportunities, military-related education and training opportunities, job security, and military lifestyle were major influences on reenlistment for two of the three TAFMS groups

### Separation

Table 45 – Displays the percentages of the members for each TAFMS group indicating that their plans to separate may be influenced by each factor, as well as the average ratings by TAFMS group for the 31 factors based on the influence each factor may have on the respondents' decisions to separate:

- Top 5 reasons members in each TAFMS group may choose to separate based on the highest percentages selecting each factor are listed below Table 45
  - Pay and allowances, military lifestyle, recognition of efforts, and esprit de corps/morale are among the top five factors that may influence the respondents' decisions to separate for two of three TAFMS groups

**TABLE 5**  
**RADIO OPERATION CLUSTER (STG 24)**  
**(N=261)**

DEMOGRAPHICS

Average Time in Present Job	48 months
Average TAFMS	75 months
Predominant Paygrade	E-4 28%
Predominant Skill Levels	3C151 52%
	3C171 26%

TASKS	AVERAGE NUMBER OF TASKS PERFORMED	96	PERCENT MEMBERS PERFORMING
A0008	Key or zeroize secure cryptographic systems		88
D0101	Perform radio checks		86
A0002	Connect or disconnect antennas to radio equipment		80
A0026	Set up radio equipment		78
A0005	Connect or disconnect cryptographic equipment		75
C0071	Perform operational checks of radio systems		74
A0016	Set up antenna masts		73
A0001	Connect or disconnect antenna couplers		72
I0212	Destroy classified or COMSEC materials or documents		72
A0004	Connect or disconnect computer equipment		70
A0019	Set up high frequency (HF), very high frequency (VHF), ultrahigh frequency (UHF), or extremely high frequency (EHF) mobile satellite antennas		69
A0030	Verify keying of cryptographic equipment		69
A0032	Verify or load equipment presets		67
D0115	Receive, transmit, or relay messages		65
I0213	Establish or maintain accountability records for classified or COMSEC materials or documents		65
D0081	Conduct data transmission using phonetic alphabet		64
A0028	Site radio antennas or equipment		64
D0076	Authenticate stations using challenge-and-reply systems		63
A0029	Tune receivers, transceivers, or transmitters		61
B0034	Change receiver, transceiver, or transmitter frequencies manually or by remote control		61
D0077	Broadcast radio transmissions		60
D0075	Authenticate message traffic using transmission authentication systems		60
D0092	Identify incoming calls using call-sign lists		58
E0118	Identify antenna system malfunctions		58
A0023	Set up mobile HF, VHF, UHF, or EHF satellite transceivers		57
D0102	Perform signal testing in radio communications		56
D0104	Perform time hacks		56
D0082	Conduct data transmission using prosigns		56
L0300	Conduct on-the-job training (OJT)		55
B0059	Reconfigure antennas		55
E0119	Identify computer equipment malfunctions		54

**TABLE 6**

**JOBS IDENTIFIED WITHIN RADIO OPERATION CLUSTER**

**ASSEMBLY JOB (STG 113)**

**DEMOGRAPHICS**

Average Time in Present Job	29 months
Average TAFMS	30 months
Predominant Paygrade	E-3 67%
Predominant Skill Level	3C151 67%

**DISTINGUISHING TASKS**

A0001	Connect or disconnect antenna couplers
A0003	Connect or disconnect commercial power supplies
A0013	Select frequency-of-optimum transmissions (FOTs)
A0028	Site radio antennas or equipment
B0059	Reconfigure antennas

**CONFIGURATION JOB (STG 76)**

**DEMOGRAPHICS**

Average Time in Present Job	33 months
Average TAFMS	40 months
Predominant Paygrade	E-4 56%
Predominant Skill Level	3C131 62%

**DISTINGUISHING TASKS**

A0001	Connect or disconnect antenna couplers
A0003	Connect or disconnect commercial power supplies
A0007	Install grounding systems
A0022	Set up mobile international maritime satellite (INMARSAT) equipment
B0056	Configure transceivers for secure radio data transfer

## **RADIO MAINTENANCE JOB (STG 126)**

### **DEMOGRAPHICS**

Average Time in Present Job	25 months
Average TAFMS	32 months
Predominant Paygrade	E-4 70%
Skill Level	3C151 100%

### **DISTINGUISHING TASKS**

C0069  
Operate or maintain recording devices

D0085  
Conduct phone patch automatically or manually

H0188  
Perform DAMA procedures

## **RADIO OPERATION JOB (STG 73)**

### **DEMOGRAPHICS**

Average Time in Present Job	62 months
Average TAFMS	92 months
Predominant Paygrade	E-3 23%
Predominant Skill Level	3C151 55%

### **DISTINGUISHING TASKS**

A0001 Connect or disconnect antenna couplers

A0017 Set up controlled safety or security areas

A0031 Verify radio nets for tactical or nontactical radios

D0115 Receive, transmit, or relay messages

K0274 Erect tents

## **GLOBAL SYSTEM JOB (STG 82)**

### **DEMOGRAPHICS**

Average Time in Present Job	23 months
Average TAFMS	72 months
Predominant Paygrade	E-3 38%
Predominant Skill Level	3C151 44%

# DISTINGUISHING TASKS

D0106	Prepare messages using Emergency Action Messages (EAM) format
D0107	Prepare messages using Foxtrot format
E0120	Identify console malfunctions
I0212	Destroy classified or COMSEC materials or documents

**TABLE 7**

## COMBAT CREW CLUSTER (STG 49) (N=166)

### DEMOGRAPHICS

Average Time in Present Job	36 months
Average TAFMS	84 months
Predominant Paygrade	E-4 24%
Predominant Skill Levels	3C131 38%
	3C151 44%

TASKS	AVERAGE NUMBER OF TASKS PERFORMED	52	PERCENT MEMBERS PERFORMING
I0212	Destroy classified or COMSEC materials or documents		87
I0222	Maintain security or COMSEC forms for safes, containers, or rooms		85
I0213	Establish or maintain accountability records for classified or COMSEC materials or documents		84
F0147	Issue, load, or retrieve cryptographic equipment		78
A0008	Key or zeroize secure cryptographic systems		78
I0239	Store classified or COMSEC materials or documents, other than at deployed locations		77
I0228	Prepare administrative, classified, or COMSEC materials or documents for mailing, transporting, or issue		73
I0240	Transport classified or COMSEC materials or documents		73
F0148	Issue or retrieve Identification Friend or Foe (IFF) or Special Identification Feature (SIF) codes		71
F0136	Assemble, issue, retrieve, or break down exercise or contingency conventional communication kits		70
F0139	Brief aircrews on communications procedures		70
F0151	Review flying schedules		69
F0135	Assemble, issue, retrieve, or break down daily training communication kits		68
I0215	Identify and report suspected security compromises		67
A0030	Verify keying of cryptographic equipment		66
F0138	Assemble, issue, retrieve, or update flight information publication (FLIP) bags		61
I0229	Prepare reports of security or COMSEC violations		60
F0137	Assemble, issue, retrieve, or break down single integrated operations plan (SIOP) communication kits		59
I0219	Maintain administrative files		58
L0300	Conduct on-the-job training (OJT)		55
K0292	Process classified or COMSEC materials or documents at deployed locations		50
F0142	Conduct SIOP or safe passage communications training		49



L0312	Maintain training records or files	48
L0309	Evaluate progress of trainees	46
F0144	Create exercise or contingency communications FLIMSYs	45
F0146	Issue, load, retrieve or zeroize transfer modules	43
J0250	Inventory equipment, tools, parts, or supplies	42
I0227	Perform two-person integrity (TPI) procedures for top secret materials	41
I0216	Initiate classified reports, messages, or documents	41
A0005	Connect or disconnect cryptographic equipment	40

**TABLE 8**

**JOBS IDENTIFIED WITHIN COMBAT CREW CLUSTER**

**COMBAT CREW JOB (STG 77)**

**DEMOGRAPHICS**

Average Time in Present Job	34 months
Average TAFMS	51 months
Predominant Paygrade	E-4 36%
Predominant Skill Level	3C151 62%

**TOP TASKS**

I0212	Destroy classified or COMSEC material or documents
I0213	Establish or maintain accountability records for classified or COMSEC materials or documents
F0147	Issue, load, or retrieve cryptographic equipment
I0222	Maintain security or COMSEC forms for safes, containers, or rooms

**TRAINING JOB (STG 72)**

**DEMOGRAPHICS**

Average Time in Present Job	40 months
Average TAFMS	154 months
Predominant Paygrade	E-7 40%
Predominant Skill Level	3C151 54%

**DISTINGUISHING TASKS**

L0301	Counsel trainees on training progress
L0302	Determine training requirements
M0321	Conduct self-inspections or self-assessments
L0304	Develop training programs, plans, or procedures
L0305	Develop written tests

**TABLE 9**  
**TRAINING/MANAGEMENT IJ (STG 86)**  
**(N=10)**

DEMOGRAPHICS		
Average Time in Present Job	28 months	
Average TAFMS	179 months	
Predominant Paygrades	E-5	40%
	E-6	40%
Predominant Skill Levels	3C151	30%
	3C171	60%

TASKS	AVERAGE NUMBER OF TASKS PERFORMED	32	PERCENT MEMBERS PERFORMING
L0309	Evaluate progress of trainees		100
M0325	Counsel subordinates concerning personal matters		90
L0300	Conduct on-the-job training (OJT)		90
L0312	Maintain training records or files		90
L0308	Evaluate effectiveness of training programs, plans, or procedures		80
L0302	Determine training requirements		80
L0301	Counsel trainees on training progress		80
M0367	Write or indorse military performance reports		70
M0339	Establish organizational policies, such as operating instructions (OIs) or standard operating procedures (SOPs)		70
M0368	Write recommendations for awards or decorations		70
L0297	Brief personnel concerning training programs or matters		70
M0347	Evaluate personnel for promotion, demotion, reclassification, or special awards		70
L0304	Develop training programs, plans, or procedures		60
M0324	Conduct supervisory performance feedback sessions		60
M0353	Interpret policies, directives, or procedures for subordinates		60
M0352	Inspect personnel for compliance with military standards		60
L0314	Prepare job qualification standards (JQSs)		50
L0311	Inspect training materials or aids for operation or suitability		50
M0340	Establish performance standards for subordinates		50
L0313	Personalize lesson plans		40
L0306	Develop or procure training materials or aids		40
M0363	Schedule personnel for TDY assignments, leaves, or passes		40
M0350	Initiate actions required due to substandard performance of personnel		40

**TABLE 10**  
**MILSTAR OPERATION IJ (STG 109)**  
**(N=49)**

DEMOGRAPHICS		
Average Time in Present Job	25 months	
Average TAFMS	78 months	
Predominant Paygrade	E-4	45%
Predominant Skill Level	3C151	78%

TASKS	AVERAGE NUMBER OF TASKS PERFORMED	20	PERCENT MEMBERS PERFORMING
H0191	Perform ephemeris update procedures		98
I0212	Destroy classified or COMSEC materials or documents		96
H0206	Set up or tear down Milstar networks		96
H0194	Perform over-the-air (OTAR) rekeying procedures		96
H0190	Perform Milstar emergency shutdown or reset procedures		96
H0192	Perform manual key loading procedures		94
H0184	Log on or off Milstar networks or satellites		92
H0202	Perform Time Distribution Subsystem (TDS) or Time Distribution Subsystem Preprocessor (TDSPP) procedures		92
H0205	Set up Communications Security (COMSEC) equipment		90
H0193	Perform message processing procedures		88
H0189	Perform EHF network procedures		86
I0213	Establish or maintain accountability records for classified or COMSEC materials or documents		84
H0200	Perform terminal control procedures		84
H0186	Perform breaking-the-chain (BTC) keying procedures		84
H0195	Perform point-to-point (PTP) call procedures		84
H0201	Perform terminal initialization procedures		82
B0041	Configure consoles or terminals for Milstar operations		82
H0207	Set up or tear down Milstar PTP calls		82
A0008	Key or zeroize secure cryptographic systems		80
C0061	Change paper in high-speed printers		80
H0187	Perform cold start procedures		80
E0130	Identify Milstar false alarms or advisories		78
A0030	Verify keying of cryptographic equipment		76
H0182	Establish or modify EHF acquisitions or log on parameters		73
H0179	Configure Milstar terminals as antenna, communication, or net control		67
L0300	Conduct on-the-job training (OJT)		65
H0180	Configure Milstar terminals as beam management terminals		65
E0134	Identify terminal malfunctions		61

TABLE 11

AVERAGE PERCENT TIME SPENT ON DUTIES  
BY 3C1X1 CLUSTERS AND JOBS

DUTIES	RADIO OPERATION CLUSTER (N=261) (STG 24)	ASSEMBLY JOB (N=11) (STG 113)	CONFIGUR JOB (N=18) (STG 76)	RADIO MAINT JOB (N=10) (STG 126)	RADIO OPER JOB (N=162) (STG 73)	GLOBAL SYSTEM JOB (N=34) (STG 82)
A SETTING UP RADIO EQUIPMENT	22	74	43	13	19	7
B CONFIGURING RADIO EQUIPMENT	7	7	11	4	7	1
C MAINTAINING RADIO EQUIPMENT	5	2	6	16	5	2
D PERFORMING RADIO OPERATIONAL PROCEDURES	20	10	12	24	17	1
E TROUBLESHOOTING RADIO EQUIPMENT	5	*	6	13	5	1
F PERFORMING COMBAT CREW COMMUNICATIONS ACTIVITIES	1	0	1	1	2	25
G PERFORMING SATELLITE COMMUNICATIONS (SATCOM)	4	2	3	5	4	*
H PERFORMING MILSTAR SATELLITE COMMUNICATIONS ACTIVITIES	3	0	4	5	3	2
I PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER (TO) SYSTEM ACTIVITIES	11	1	5	16	11	27
J PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	3	2	1	*	3	4
K PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	7	*	6	*	10	5
L PERFORMING TRAINING ACTIVITIES	5	*	1	2	6	10
M PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	7	1	*	1	9	13

\* Indicates less than 1%

Note: Columns may not add up to 100 due to rounding

TABLE 11 (CONTINUED)

AVERAGE PERCENT TIME SPENT ON DUTIES  
BY CAREER LADDER CLUSTERS AND JOBS

DUTIES	COMBAT CREW CLUSTER (N=166) (STG 49)	COMBAT CREW JOB (N=109) (STG 77)	TRAINING JOB (N=57) (STG 72)	TRAINING/ MANAG IJ (N=10) (STG 86)	MILSTAR OPERATION IJ (N=49) (STG 109)
A SETTING UP RADIO EQUIPMENT	7	9	4	2	6
B CONFIGURING RADIO EQUIPMENT	1	*	1	2	5
C MAINTAINING RADIO EQUIPMENT	2	2	2	1	2
D PERFORMING RADIO OPERATIONAL PROCEDURES	1	1	2	2	4
E TROUBLESHOOTING RADIO EQUIPMENT	1	1	2	1	5
F PERFORMING COMBAT CREW COMMUNICATIONS ACTIVITIES	25	32	10	1	1
G PERFORMING SATELLITE COMMUNICATIONS (SATCOM)	*	*	1	*	5
H PERFORMING MILSTAR SATELLITE COMMUNICATIONS ACTIVITIES	2	2	4	1	40
I PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER (TO) SYSTEM ACTIVITIES	27	31	19	9	16
J PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	4	4	4	1	2
K PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	5	5	5	2	1
L PERFORMING TRAINING ACTIVITIES	10	6	18	40	8
M PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	13	6	28	40	4

\* Indicates less than 1%

Note: Columns may not add up to 100 due to rounding

TABLE 12

## SPECIALTY JOB COMPARISON BETWEEN CURRENT AND 2000 SURVEYS

PRESENT SURVEY (N=567)		2000 SURVEY (N=580)	
RADIO OPERATION CLUSTER	46%	RADIO SET-UP CLUSTER	19%
TRAINING / MANAGEMENT INDEPENDENT JOB	2%	MANAGEMENT/SUPERVISOR CLUSTER	14%
RADIO OPERATION CLUSTER - RADIO OPERATION JOB	29%	OPERATIONS CENTER CLUSTER	5%
RADIO OPERATION CLUSTER - RADIO OPERATION JOB	29%	OPERATION CENTER TECHNICIAN	3%
RADIO OPERATION CLUSTER - GLOBAL SYSTEM JOB	6%	GLOBAL HF CLUSTER	30%
RADIO OPERATION CLUSTER - GLOBAL SYSTEM JOB	6%	GLOBAL HIGH FREQUENCY SUPERVISOR	1%
COMBAT CREW CLUSTER	29%	COMBAT CREW COMMUNICATIONS JOB	12%
*	*	MYSTIC STAR OPERATOR JOB	3%
MILSTAR OPERATION INDEPENDENT JOB	9%	MILSTAR TERMINAL OPERATOR JOB	6%

\* Indicates cluster/job not found in study

TABLE 13

DISTRIBUTION OF AFSC 3C1X1 SKILL-LEVEL MEMBERS  
ACROSS CAREER LADDER JOBS (PERCENT RESPONDING)

	3C131 (N=107)	3C151 (N=302)	3C171 (N=145)	3C191 (N=13)
RADIO OPERATION CLUSTER	49	45	47	31
COMBAT CREW CLUSTER	31	27	30	54
TRAINING/MANAGEMENT IJ	1	1	4	*
MILSTAR OPERATION IJ	4	13	5	*
NOT GROUPED	15	14	14	14

\* Indicates less than 1%



TABLE 14

TIME SPENT ON DUTIES BY TOTAL SAMPLE MEMBERS OF AFSC 3C1X1 SKILL-LEVEL GROUPS  
(PERCENT RESPONDING)

DUTIES	3C1X1 (N=567)	3C131 (N=107)	3C151 (N=302)	3C171 (N=145)	3C191 (N=13)
A SETTING UP RADIO EQUIPMENT	15	17	17	10	7
B CONFIGURING RADIO EQUIPMENT	5	6	5	3	2
C MAINTAINING RADIO EQUIPMENT	4	4	4	3	2
D PERFORMING RADIO OPERATIONAL PROCEDURES	12	16	12	9	7
E TROUBLESHOOTING RADIO EQUIPMENT	4	3	4	4	3
F PERFORMING COMBAT CREW COMMUNICATIONS ACTIVITIES	9	11	9	7	11
G PERFORMING SATELLITE COMMUNICATIONS (SATCOM) ACTIVITIES	2	2	3	2	*
H PERFORMING MILSTAR SATELLITE COMMUNICATIONS ACTIVITIES	7	5	8	4	1
I PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER (TO) SYSTEM ACTIVITIES	17	17	17	16	17
J PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	3	4	3	3	4
K PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	5	3	4	8	12
L PERFORMING TRAINING ACTIVITIES	8	5	7	10	13
M PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	10	5	7	21	22

\* Indicates less than 1%

Note: Columns may not add to 100 due to rounding

TABLE 15

TIME SPENT ON DUTIES BY AD MEMBERS OF AFSC 3C1X1 SKILL-LEVEL GROUPS  
(PERCENT RESPONDING)

DUTIES	3C1X1 (N=411)	3C131 (N=107)	3C151 (N=239)	3C171 (N=63)
A SETTING UP RADIO EQUIPMENT	13	17	13	5
B CONFIGURING RADIO EQUIPMENT	4	6	4	2
C MAINTAINING RADIO EQUIPMENT	4	4	4	2
D PERFORMING RADIO OPERATIONAL PROCEDURES	11	16	11	6
E TROUBLESHOOTING RADIO EQUIPMENT	4	3	4	4
F PERFORMING COMBAT CREW COMMUNICATIONS ACTIVITIES	9	11	10	3
G PERFORMING SATELLITE COMMUNICATIONS (SATCOM) ACTIVITIES	2	2	2	1
H PERFORMING MILSTAR SATELLITE COMMUNICATIONS ACTIVITIES	8	5	10	7
I PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER (TO) SYSTEM ACTIVITIES	18	17	19	17
J PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	3	4	3	3
K PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	4	3	4	5
L PERFORMING TRAINING ACTIVITIES	8	5	8	12
M PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	11	5	8	33

Note: Columns may not add up to 100 due to rounding

TABLE 16

## REPRESENTATIVE TASKS PERFORMED BY AD DAFSC 3C131 PERSONNEL

TASKS	AVERAGE NUMBER OF TASKS PERFORMED 51	PERCENT MEMBERS PERFORMING (N=107)
A0008	Key or zeroize secure cryptographic systems	73
I0212	Destroy classified or COMSEC materials or documents	68
I0213	Establish or maintain accountability records for classified or COMSEC materials or documents	61
I0222	Maintain security or COMSEC forms for safes, containers, or rooms	51
A0030	Verify keying of cryptographic equipment	51
A0005	Connect or disconnect cryptographic equipment	49
I0239	Store classified or COMSEC materials or documents, other than at deployed locations	47
D0101	Perform radio checks	47
I0240	Transport classified or COMSEC materials or documents	43
A0026	Set up radio equipment	42
A0032	Verify or load equipment presets	42
F0147	Issue, load, or retrieve cryptographic equipment	41
I0215	Identify and report suspected security compromises	41
L0300	Conduct on-the-job training (OJT)	39
J0250	Inventory equipment, tools, parts, or supplies	38
D0115	Receive, transmit, or relay messages	37
C0071	Perform operational checks of radio systems	37
F0135	Assemble, issue, retrieve, or break down daily training communication kits	36
A0004	Connect or disconnect computer equipment	36
C0061	Change paper in high-speed printers	36
I0220	Maintain data logs	35
D0081	Conduct data transmission using phonetic alphabet	35
D0092	Identify incoming calls using call-sign lists	35
A0002	Connect or disconnect antennas to radio equipment	35
F0136	Assemble, issue, retrieve, or break down exercise or contingency conventional communication kits	34
A0016	Set up antenna masts	34
A0001	Connect or disconnect antenna couplers	34
B0034	Change receiver, transceiver, or transmitter frequencies manually or by remote control	33
A0019	Set up high frequency (HF), very high frequency (VHF), ultrahigh frequency (UHF), or extremely high frequency (EHF) mobile satellite antennas	33
F0151	Review flying schedules	32
E0121	Identify cryptographic equipment malfunctions	32
I0228	Prepare administrative, classified, or COMSEC materials or documents for mailing, transporting, or issue	31
D0077	Broadcast radio transmissions	31
D0075	Authenticate message traffic using transmission authentication systems	31
D0076	Authenticate stations using challenge-and-reply systems	31
A0028	Site radio antennas or equipment	30
H0205	Set up Communications Security (COMSEC) equipment	30
I0227	Perform two-person integrity (TPI) procedures for top secret materials	29
D0104	Perform time hacks	29
A0029	Tune receivers, transceivers, or transmitters	28
J0248	Identify and report equipment or supply problems	27
F0138	Assemble, issue, retrieve, or update flight information publication (FLIP) bags	26

TABLE 17

## REPRESENTATIVE TASKS PERFORMED BY AD DAFSC 3C151 PERSONNEL

TASKS	AVERAGE NUMBER OF TASKS PERFORMED 58	PERCENT MEMBERS PERFORMING (N=239)
A0008	Key or zeroize secure cryptographic systems	78
I0212	Destroy classified or COMSEC materials or documents	70
I0213	Establish or maintain accountability records for classified or COMSEC materials or documents	62
A0030	Verify keying of cryptographic equipment	61
A0005	Connect or disconnect cryptographic equipment	53
I0222	Maintain security or COMSEC forms for safes, containers, or rooms	52
I0215	Identify and report suspected security compromises	48
I0240	Transport classified or COMSEC materials or documents	47
I0239	Store classified or COMSEC materials or documents, other than at deployed locations	46
D0101	Perform radio checks	45
L0300	Conduct on-the-job training (OJT)	45
F0147	Issue, load, or retrieve cryptographic equipment	43
A0004	Connect or disconnect computer equipment	43
I0228	Prepare administrative, classified, or COMSEC materials or documents for mailing, transporting, or issue	41
A0002	Connect or disconnect antennas to radio equipment	40
A0032	Verify or load equipment presets	39
C0061	Change paper in high-speed printers	39
H0205	Set up Communications Security (COMSEC) equipment	38
I0219	Maintain administrative files	37
A0026	Set up radio equipment	37
I0229	Prepare reports of security or COMSEC violations	37
E0121	Identify cryptographic equipment malfunctions	37
C0071	Perform operational checks of radio systems	36
I0227	Perform two-person integrity (TPI) procedures for top secret materials	35
J0250	Inventory equipment, tools, parts, or supplies	35
C0060	Change computer diskettes or tapes	35
L0301	Counsel trainees on training progress	34
D0081	Conduct data transmission using phonetic alphabet	34
L0312	Maintain training records or files	33
A0016	Set up antenna masts	33
I0220	Maintain data logs	33
A0001	Connect or disconnect antenna couplers	33
D0076	Authenticate stations using challenge-and-reply systems	33
D0115	Receive, transmit, or relay messages	32

TABLE 18

## REPRESENTATIVE TASKS PERFORMED BY AD DAFSC 3C171 PERSONNEL

TASKS	AVERAGE NUMBER OF TASKS PERFORMED 70	PERCENT MEMBERS PERFORMING (N=63)
M0368	Write recommendations for awards or decorations	76
M0367	Write or indorse military performance reports	73
M0325	Counsel subordinates concerning personal matters	71
M0319	Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	60
I0212	Destroy classified or COMSEC materials or documents	60
I0213	Establish or maintain accountability records for classified or COMSEC materials or documents	60
L0300	Conduct on-the-job training (OJT)	60
I0222	Maintain security or COMSEC forms for safes, containers, or rooms	57
M0347	Evaluate personnel for promotion, demotion, reclassification, or special awards	57
L0302	Determine training requirements	57
L0301	Counsel trainees on training progress	57
L0312	Maintain training records or files	57
I0239	Store classified or COMSEC materials or documents, other than at deployed locations	54
M0340	Establish performance standards for subordinates	54
M0324	Conduct supervisory performance feedback sessions	54
L0309	Evaluate progress of trainees	54
M0353	Interpret policies, directives, or procedures for subordinates	52
M0339	Establish organizational policies, such as operating instructions (OIs) or standard operating procedures (SOPs)	49
L0297	Brief personnel concerning training programs or matters	49
M0369	Write replies to inspection reports	49
M0327	Determine or establish work assignments or priorities	46
I0209	Compile data for records, reports, logs, or trend analyses	40
M0317	Assign personnel to work areas or duty positions	38
M0334	Draft budget requirements	30

TABLE 19

TIME SPENT ON DUTIES BY ANG MEMBERS OF AFSC 3C1X1 SKILL-LEVEL GROUPS  
(PERCENT RESPONDING)

DUTIES	3C1X1 (N=69)	3C151 (N=28)	3C171 (N=35)	3C191 (N=6)
A SETTING UP RADIO EQUIPMENT	23	39	13	4
B CONFIGURING RADIO EQUIPMENT	5	7	3	2
C MAINTAINING RADIO EQUIPMENT	4	5	3	2
D PERFORMING RADIO OPERATIONAL PROCEDURES	12	15	11	3
E TROUBLESHOOTING RADIO EQUIPMENT	4	4	3	1
F PERFORMING COMBAT CREW COMMUNICATIONS ACTIVITIES	9	1	13	19
G PERFORMING SATELLITE COMMUNICATIONS (SATCOM) ACTIVITIES	3	5	2	1
H PERFORMING MILSTAR SATELLITE COMMUNICATIONS ACTIVITIES	3	3	3	1
I PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER (TO) SYSTEM ACTIVITIES	12	6	16	18
J PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	4	3	4	4
K PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	7	5	9	9
L PERFORMING TRAINING ACTIVITIES	7	4	8	15
M PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	8	2	10	23

Note: Columns may not add up to 100 due to rounding

TABLE 20

## REPRESENTATIVE TASKS PERFORMED BY ANG DAFSC 3C151 PERSONNEL

TASKS	AVERAGE NUMBER OF TASKS PERFORMED	PERCENT MEMBERS PERFORMING (N=28)
A0002	Connect or disconnect antennas to radio equipment	89
A0016	Set up antenna masts	82
A0008	Key or zeroize secure cryptographic systems	79
A0001	Connect or disconnect antenna couplers	79
A0005	Connect or disconnect cryptographic equipment	79
A0004	Connect or disconnect computer equipment	64
A0026	Set up radio equipment	61
A0019	Set up high frequency (HF), very high frequency (VHF), ultrahigh frequency (UHF), or extremely high frequency (EHF) mobile satellite antennas	61
A0028	Site radio antennas or equipment	57
E0118	Identify antenna system malfunctions	57
A0029	Tune receivers, transceivers, or transmitters	54
D0081	Conduct data transmission using phonetic alphabet	54
D0102	Perform signal testing in radio communications	54
D0077	Broadcast radio transmissions	54
C0071	Perform operational checks of radio systems	54
A0003	Connect or disconnect commercial power supplies	50
D0101	Perform radio checks	50
B0059	Reconfigure antennas	50
D0115	Receive, transmit, or relay messages	46
A0032	Verify or load equipment presets	46
A0030	Verify keying of cryptographic equipment	46
A0014	Select transmit power	43
A0023	Set up mobile HF, VHF, UHF, or EHF satellite transceivers	43
A0012	Select back-up receivers or transmitters	43
J0250	Inventory equipment, tools, parts, or supplies	39
D0092	Identify incoming calls using call-sign lists	39
B0037	Configure computers for data operations	39
K0275	Inspect mobility bags or kits	39
C0068	Inspect communications equipment cables or cable connections	39
B0034	Change receiver, transceiver, or transmitter frequencies manually or by remote control	36
B0033	Adjust antenna tuning units	36
A0017	Set up controlled safety or security areas	36
D0114	Receive, transmit, or relay broadcasts	36
A0007	Install grounding systems	36
A0013	Select frequency-of-optimum transmissions (FOTs)	32

TABLE 21

## REPRESENTATIVE TASKS PERFORMED BY ANG DAFSC 3C171 PERSONNEL

TASKS	AVERAGE NUMBER OF TASKS PERFORMED 84	PERCENT MEMBERS PERFORMING (N=35)
A0008	Key or zeroize secure cryptographic systems	86
I0212	Destroy classified or COMSEC materials or documents	83
A0030	Verify keying of cryptographic equipment	83
I0213	Establish or maintain accountability records for classified or COMSEC materials or documents	80
L0300	Conduct on-the-job training (OJT)	77
K0273	Don or doff chemical warfare personal protective clothing	74
K0292	Process classified or COMSEC materials or documents at deployed locations	71
I0215	Identify and report suspected security compromises	71
F0147	Issue, load, or retrieve cryptographic equipment	69
K0275	Inspect mobility bags or kits	69
I0240	Transport classified or COMSEC materials or documents	63
I0222	Maintain security or COMSEC forms for safes, containers, or rooms	60
A0005	Connect or disconnect cryptographic equipment	60
L0301	Counsel trainees on training progress	57
I0228	Prepare administrative, classified, or COMSEC materials or documents for mailing, transporting, or issue	57
L0302	Determine training requirements	57
I0219	Maintain administrative files	57
L0312	Maintain training records or files	57
I0220	Maintain data logs	57
I0239	Store classified or COMSEC materials or documents, other than at deployed locations	54
A0002	Connect or disconnect antennas to radio equipment	54
K0289	Prepare equipment for deployments	54
I0216	Initiate classified reports, messages, or documents	54
A0026	Set up radio equipment	51
H0205	Set up Communications Security (COMSEC) equipment	51
A0016	Set up antenna masts	51
J0250	Inventory equipment, tools, parts, or supplies	51
F0135	Assemble, issue, retrieve, or break down daily training communication kits	49
D0101	Perform radio checks	49
J0248	Identify and report equipment or supply problems	49
A0029	Tune receivers, transceivers, or transmitters	49
E0121	Identify cryptographic equipment malfunctions	49
L0297	Brief personnel concerning training programs or matters	49
F0137	Assemble, issue, retrieve, or break down single integrated operations plan (SIOP) communication kits	46
L0309	Evaluate progress of trainees	46
F0136	Assemble, issue, retrieve, or break down exercise or contingency conventional communication kits	43
F0148	Issue or retrieve Identification Friend or Foe (IFF) or Special Identification Feature (SIF) codes	43
M0325	Counsel subordinates concerning personal matters	43
A0028	Site radio antennas or equipment	43
F0139	Brief aircrews on communications procedures	40
J0245	Coordinate maintenance of equipment with appropriate agencies	40



TABLE 22

## REPRESENTATIVE TASKS PERFORMED BY ANG DAFSC 3C191 PERSONNEL

TASKS	AVERAGE NUMBER OF TASKS PERFORMED 133	PERCENT MEMBERS PERFORMING (N=6)
F0135	Assemble, issue, retrieve, or break down daily training communication kits	100
F0136	Assemble, issue, retrieve, or break down exercise or contingency conventional communication kits	100
I0212	Destroy classified or COMSEC materials or documents	100
I0213	Establish or maintain accountability records for classified or COMSEC materials or documents	100
I0239	Store classified or COMSEC materials or documents, other than at deployed locations	100
K0292	Process classified or COMSEC materials or documents at deployed locations	100
F0151	Review flying schedules	100
M0339	Establish organizational policies, such as operating instructions (OIs) or standard operating procedures (SOPs)	100
L0304	Develop training programs, plans, or procedures	100
F0150	Review air tasking documents	100
M0332	Develop or establish work methods, procedures or schedules	100
I0219	Maintain administrative files	100
F0142	Conduct SIOP or safe passage communications training	100
F0144	Create exercise or contingency communications FLIMSYs	100
F0139	Brief aircrews on communications procedures	100
I0240	Transport classified or COMSEC materials or documents	100
L0300	Conduct on-the-job training (OJT)	100
F0137	Assemble, issue, retrieve, or break down single integrated operations plan (SIOP) communication kits	100
L0309	Evaluate progress of trainees	100
A0008	Key or zeroize secure cryptographic systems	100
L0301	Counsel trainees on training progress	100
L0302	Determine training requirements	100
F0141	Conduct exercise or contingency briefings or debriefings	100
M0327	Determine or establish work assignments or priorities	100
I0214	Extract call-signs	100
F0147	Issue, load, or retrieve cryptographic equipment	83
L0306	Develop or procure training materials or aids	83
F0148	Issue or retrieve Identification Friend or Foe (IFF) or Special Identification Feature (SIF) codes	83
J0246	Develop equipment checklists	83
I0222	Maintain security or COMSEC forms for safes, containers, or rooms	83

TABLE 23

TIME SPENT ON DUTIES BY AFRC MEMBERS OF AFSC 3C1X1 SKILL-LEVEL GROUPS  
(PERCENT RESPONDING)

DUTIES	AFRC 3C1X1 (N=85)	AFRC 3C151 (N=35)	AFRC 3C171 (N=47)	AFRC 3C191 (N=5)
A SETTING UP RADIO EQUIPMENT	17	22	13	11
B CONFIGURING RADIO EQUIPMENT	5	7	4	*
C MAINTAINING RADIO EQUIPMENT	4	5	4	4
D PERFORMING RADIO OPERATIONAL PROCEDURES	14	16	13	8
E TROUBLESHOOTING RADIO EQUIPMENT	4	3	4	3
F PERFORMING COMBAT CREW COMMUNICATIONS ACTIVITIES	8	11	7	6
G PERFORMING SATELLITE COMMUNICATIONS (SATCOM) ACTIVITIES	3	4	3	*
H PERFORMING MILSTAR SATELLITE COMMUNICATIONS ACTIVITIES	2	2	2	1
I PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER (TO) SYSTEM ACTIVITIES	14	13	14	16
J PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	4	3	4	4
K PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	10	8	11	19
L PERFORMING TRAINING ACTIVITIES	7	2	9	17
M PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	8	3	12	11

\* Indicates less than 1%

Note: Columns may not add to 100 due to rounding

TABLE 24

## REPRESENTATIVE TASKS PERFORMED BY AFRC DAFSC 3C151 PERSONNEL

TASKS	AVERAGE NUMBER OF TASKS PERFORMED 82	PERCENT MEMBERS PERFORMING (N=35)
I0212	Destroy classified or COMSEC materials or documents	77
A0008	Key or zeroize secure cryptographic systems	77
A0026	Set up radio equipment	77
A0002	Connect or disconnect antennas to radio equipment	77
D0075	Authenticate message traffic using transmission authentication systems	71
A0030	Verify keying of cryptographic equipment	69
A0001	Connect or disconnect antenna couplers	69
A0005	Connect or disconnect cryptographic equipment	69
A0016	Set up antenna masts	69
A0004	Connect or disconnect computer equipment	69
A0019	Set up high frequency (HF), very high frequency (VHF), ultrahigh frequency (UHF), or extremely high frequency (EHF) mobile satellite antennas	69
D0101	Perform radio checks	66
A0007	Install grounding systems	66
C0071	Perform operational checks of radio systems	66
D0076	Authenticate stations using challenge-and-reply systems	66
I0213	Establish or maintain accountability records for classified or COMSEC materials or documents	63
A0017	Set up controlled safety or security areas	63
A0023	Set up mobile HF, VHF, UHF, or EHF satellite transceivers	60
A0028	Site radio antennas or equipment	60
C0060	Change computer diskettes or tapes	60
D0082	Conduct data transmission using prosigns	60
D0077	Broadcast radio transmissions	57
D0078	Check stations into or out of net	57
K0289	Prepare equipment for deployments	57
I0240	Transport classified or COMSEC materials or documents	54
B0034	Change receiver, transceiver, or transmitter frequencies manually or by remote control	51
I0222	Maintain security or COMSEC forms for safes, containers, or rooms	51
K0292	Process classified or COMSEC materials or documents at deployed locations	51
I0228	Prepare administrative, classified, or COMSEC materials or documents for mailing, transporting, or issue	51
D0092	Identify incoming calls using call-sign lists	51
B0059	Reconfigure antennas	51

TABLE 25

## REPRESENTATIVE TASKS PERFORMED BY AFRC DAFSC 3C171 PERSONNEL

TASKS	AVERAGE NUMBER OF TASKS PERFORMED 123	PERCENT MEMBERS PERFORMING (N=47)
I0212	Destroy classified or COMSEC materials or documents	83
A0008	Key or zeroize secure cryptographic systems	83
L0300	Conduct on-the-job training (OJT)	79
I0213	Establish or maintain accountability records for classified or COMSEC materials or documents	77
L0312	Maintain training records or files	77
K0273	Don or doff chemical warfare personal protective clothing	77
I0222	Maintain security or COMSEC forms for safes, containers, or rooms	74
I0240	Transport classified or COMSEC materials or documents	74
A0026	Set up radio equipment	74
A0030	Verify keying of cryptographic equipment	74
A0001	Connect or disconnect antenna couplers	74
A0002	Connect or disconnect antennas to radio equipment	74
K0295	Tear down, inspect, clean, and reassemble weapons, such as M-16 rifles	72
I0215	Identify and report suspected security compromises	72
K0292	Process classified or COMSEC materials or documents at deployed locations	70
K0289	Prepare equipment for deployments	70
A0016	Set up antenna masts	70
K0274	Erect tents	70
D0101	Perform radio checks	70
I0239	Store classified or COMSEC materials or documents, other than at deployed locations	68
L0301	Counsel trainees on training progress	68
A0005	Connect or disconnect cryptographic equipment	68
E0118	Identify antenna system malfunctions	66
I0219	Maintain administrative files	66
A0019	Set up high frequency (HF), very high frequency (VHF), ultrahigh frequency (UHF), or extremely high frequency (EHF) mobile satellite antennas	66
A0032	Verify or load equipment presets	66
C0068	Inspect communications equipment cables or cable connections	66
J0250	Inventory equipment, tools, parts, or supplies	64
D0075	Authenticate message traffic using transmission authentication systems	64
K0282	Perform chemical warfare agent decontamination procedures	64
D0115	Receive, transmit, or relay messages	62
K0275	Inspect mobility bags or kits	62
D0092	Identify incoming calls using call-sign lists	62
I0228	Prepare administrative, classified, or COMSEC materials or documents for mailing, transporting, or issue	60
C0071	Perform operational checks of radio systems	60
D0078	Check stations into or out of net	60
L0309	Evaluate progress of trainees	57
A0029	Tune receivers, transceivers, or transmitters	57
L0297	Brief personnel concerning training programs or matters	57
H0205	Set up Communications Security (COMSEC) equipment	55
M0323	Conduct supervisory orientations for newly assigned personnel	49
L0302	Determine training requirements	49
M0324	Conduct supervisory performance feedback sessions	45

TABLE 26

## REPRESENTATIVE TASKS PERFORMED BY AFRC DAFSC 3C191 PERSONNEL

TASKS	AVERAGE NUMBER OF TASKS PERFORMED 79	PERCENT MEMBERS PERFORMING (N=5)
K0276	Inspect packed or palletized mobility or contingency equipment prior to transport	100
A0008	Key or zeroize secure cryptographic systems	100
A0005	Connect or disconnect cryptographic equipment	100
A0004	Connect or disconnect computer equipment	100
I0213	Establish or maintain accountability records for classified or COMSEC materials or documents	80
I0212	Destroy classified or COMSEC materials or documents	80
L0313	Personalize lesson plans	80
K0275	Inspect mobility bags or kits	80
K0280	Pack or palletize mobility or contingency equipment for shipment or movement	80
M0367	Write or indorse military performance reports	80
I0240	Transport classified or COMSEC materials or documents	80
L0306	Develop or procure training materials or aids	80
L0300	Conduct on-the-job training (OJT)	80
A0003	Connect or disconnect commercial power supplies	80
I0222	Maintain security or COMSEC forms for safes, containers, or rooms	60
L0315	Write training reports	60
K0274	Erect tents	60
A0030	Verify keying of cryptographic equipment	60
C0061	Change paper in high-speed printers	60
C0060	Change computer diskettes or tapes	60
A0002	Connect or disconnect antennas to radio equipment	60
L0309	Evaluate progress of trainees	60
F0141	Conduct exercise or contingency briefings or debriefings	60
I0228	Prepare administrative, classified, or COMSEC materials or documents for mailing, transporting, or issue	60
L0310	Evaluate training methods or techniques of instructors	60
M0368	Write recommendations for awards or decorations	60
F0147	Issue, load, or retrieve cryptographic equipment	60
K0292	Process classified or COMSEC materials or documents at deployed locations	60
F0136	Assemble, issue, retrieve, or break down exercise or contingency conventional communication kits	60
K0259	Complete hazardous cargo shipping documents	60
I0239	Store classified or COMSEC materials or documents, other than at deployed locations	40
L0312	Maintain training records or files	40
H0205	Set up Communications Security (COMSEC) equipment	40
K0281	Perform camouflage procedures	40
L0307	Establish or maintain study reference files	40
L0305	Develop written tests	40
L0304	Develop training programs, plans, or procedures	40
L0311	Inspect training materials or aids for operation or	40
L0314	Prepare job qualification standards (JQSs)	20
K0272	Dispatch mobile radio units	20

TABLE 27

PERCENT TIME SPENT ON DUTIES BY  
FIRST-ENLISTMENT PERSONNEL (1-48 MONTHS' TAFMS)

<u>DUTIES</u>	<u>1-48 MONTHS' TAFMS (N=216)</u>
A SETTING UP RADIO EQUIPMENT	16
B CONFIGURING RADIO EQUIPMENT	5
C MAINTAINING RADIO EQUIPMENT	4
D PERFORMING RADIO OPERATIONAL PROCEDURES	14
E TROUBLESHOOTING RADIO EQUIPMENT	4
F PERFORMING COMBAT CREW COMMUNICATIONS ACTIVITIES	12
G PERFORMING SATELLITE COMMUNICATIONS (SATCOM) ACTIVITIES	2
H PERFORMING MILSTAR SATELLITE COMMUNICATIONS ACTIVITIES	9
I PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER (TO) SYSTEM ACTIVITIES	19
J PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	4
K PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	3
L PERFORMING TRAINING ACTIVITIES	5
M PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	4

Note: Column does not add to 100 due to rounding

TABLE 28

REPRESENTATIVE TASKS PERFORMED BY AFSC 3C1X1  
FIRST-ENLISTMENT PERSONNEL (1-48 MONTHS' TAFMS)

TASKS	AVERAGE NUMBER OF TASKS PERFORMED 49	PERCENT MEMBERS PERFORMING (N=216)
A0008	Key or zeroize secure cryptographic systems	76
I0212	Destroy classified or COMSEC materials or documents	73
I0213	Establish or maintain accountability records for classified or COMSEC materials or documents	60
A0030	Verify keying of cryptographic equipment	55
I0222	Maintain security or COMSEC forms for safes, containers, or rooms	52
A0005	Connect or disconnect cryptographic equipment	49
I0239	Store classified or COMSEC materials or documents, other than at deployed locations	46
F0147	Issue, load, or retrieve cryptographic equipment	46
D0101	Perform radio checks	44
I0240	Transport classified or COMSEC materials or documents	44
I0215	Identify and report suspected security compromises	44
A0032	Verify or load equipment presets	37
C0061	Change paper in high-speed printers	37
I0228	Prepare administrative, classified, or COMSEC materials or documents for mailing, transporting, or issue	36
L0300	Conduct on-the-job training (OJT)	36
H0205	Set up Communications Security (COMSEC) equipment	36
F0135	Assemble, issue, retrieve, or break down daily training communication kits	35
F0136	Assemble, issue, retrieve, or break down exercise or contingency conventional communication kits	34
I0220	Maintain data logs	34
A0004	Connect or disconnect computer equipment	34
D0115	Receive, transmit, or relay messages	33
F0151	Review flying schedules	32
I0227	Perform two-person integrity (TPI) procedures for top secret materials	32
J0250	Inventory equipment, tools, parts, or supplies	32
A0026	Set up radio equipment	32
E0121	Identify cryptographic equipment malfunctions	32
D0081	Conduct data transmission using phonetic alphabet	31
I0229	Prepare reports of security or COMSEC violations	31

TABLE 29

FIXED COMMUNICATIONS SYSTEMS USED OR OPERATED BY 10 PERCENT OR MORE  
FIRST-ENLISTMENT AFSC 3C1X1 PERSONNEL  
(PERCENT USING OR OPERATING)

<u>FIXED COMMUNICATIONS SYSTEMS</u>	<u>(N=216)</u>
MILSTAR	22
Global HF Systems	18
Other	10

TABLE 30

DEPLOYABLE COMMUNICATIONS SYSTEMS USED OR OPERATED BY 10 PERCENT OR MORE  
FIRST-ENLISTMENT AFSC 3C1X1 PERSONNEL  
(PERCENT USING OR OPERATING)

<u>DEPLOYABLE COMMUNICATIONS SYSTEMS</u>	<u>(N=216)</u>
MILSTAR	13

TABLE 31

FREQUENCY BANDS USED OR OPERATED BY 20 PERCENT OR MORE  
FIRST-ENLISTMENT AFSC 3C1X1 PERSONNEL  
(PERCENT USING OR OPERATING)

<u>FREQUENCY BANDS</u>	<u>(N=216)</u>
High Frequency (HF)	44
Ultrahigh Frequency (UHF)	33
Very High Frequency (VHF)	20

TABLE 32

COMMUNICATIONS MODES USED OR OPERATED BY 20 PERCENT OR MORE  
FIRST-ENLISTMENT AFSC 3C1X1 PERSONNEL  
(PERCENT USING OR OPERATING)

<u>COMMUNICATION MODES</u>	<u>(N=216)</u>
Data Transmission	33
Upper Sideband (USB)	32
Single Sideband (SSB)	26
Frequency Modulation	25
Have Quick	23
Demand Assigned Multiple Access (DAMA)	23
Amplitude Modulation (AM)	20



TABLE 33

MOBILE COMMUNICATIONS SYSTEMS USED OR OPERATED BY 10 PERCENT OR MORE  
FIRST-ENLISTMENT AFSC 3C1X1 PERSONNEL  
(PERCENT USING OR OPERATING)

<u>MOBILE COMMUNICATIONS SYSTEMS</u>	<u>(N=216)</u>
Satellite Communications (SATCOM)	26
Radios, Handheld	20
Radios, Backpack	16
MILSTAR	15
International Maritime Satellites (INMARSAT)	13
Transceivers, Portable	12

TABLE 34

COMMUNICATIONS EQUIPMENT USED OR OPERATED BY 20 PERCENT OR MORE  
FIRST-ENLISTMENT AFSC 3C1X1 PERSONNEL  
(PERCENT USING OR OPERATING)

<u>COMMUNICATIONS EQUIPMENT</u>	<u>(N=216)</u>
Telephones	70
Secured Telephones	67
Cryptographic Equipment	63
Printers	63
Computer Equipment	56
Radio Equipment	44
Satellite Communications Equipment	38
Transmission Security (TRANSEC) Equipment	24
Time Distribution Subsystem Preprocessors (TDSPPs)	22
Land Mobile Radios (LMRs)	21
Mobile Antenna Systems	21

TABLE 35

## AFSC 3C1X1 TASKS WITH HIGHEST TASK DIFFICULTY (TD) RATINGS

TASKS	TSK DIF *	PERCENT MEMBERS PERFORMING							
		1-24 TAFMS	1-48 MOS	3- SKL LVL	5- SKL LVL	7- SKL LVL			
A0006	7.14	7	7	7	9	6			
M0370	6.89	0	1	2	5	25			
Cut antenna lengths									
Write staff studies, surveys, or routine reports, other than training or inspection reports									
K0268	6.84	0	1	1	3	13			
H0203	6.77	4	6	3	15	24			
M0356	6.72	8	7	9	10	22			
M0360	6.72	3	1	0	6	29			
M0335	6.66	1	1	1	2	10			
M0334	6.61	3	1	0	5	30			
L0304	6.59	12	16	17	26	41			
H0185	6.48	1	1	0	8	21			
M0357	6.47	1	2	2	3	14			
H0186	6.44	11	10	2	18	21			
A0021	6.42	14	13	21	11	11			
B0041	6.41	14	14	9	19	16			
M0339	6.37	11	12	10	16	49			
Establish organizational policies, such as operating instructions (OIs) or standard operating procedures (SOPs)									
K0261	6.37	4	2	2	5	13			
M0336	6.37	1	1	0	2	6			
L0303	6.36	4	4	7	6	16			
Develop formal course curricula, plans of instruction (POIs), or specialty training standards (STSs)									
M0338	6.34	12	8	8	9	19			
M0337	6.31	1	1	2	2	16			
Establish COMSEC subaccounts									
Draft supplements or changes to directives, such as policy directives, instructions, or manuals, other than communications publications									
M0365	6.30	8	5	7	10	49			
K0270	6.29	1	1	0	3	2			

\* TD MEAN = 5.00; S.D. = 1.00; HIGH = 6.00

TABLE 36

STS ELEMENT NOT SUPPORTED BY SURVEY DATA  
(LESS THAN 20 PERCENT MEMBERS PERFORMING)

UNIT	LEARNING OBJECTIVE	PERCENT MEMBERS PERFORMING			
		PROF CODE	1ST JOB (N=74)	1ST ENL (N=216)	TSK DIF
7.1.2	Prepare Message Formats /Emergency Action Message (EAM)				
Task	D0106. Prepare messages using Emergency Action Message format	2b	14	14	4.65
* Mean TD Rating = 5.00 Standard Deviation = 1.00 High TD = 6.00					

TABLE 37

TASKS PERFORMED BY 20 PERCENT OR MORE MEMBERS  
BUT NOT REFERENCED TO ANY STS ELEMENT

TASKS	1ST JOB (N=74)	1ST ENL (N=216)	TSK DIF
B0053	22	22	4.96
J0248	20	23	4.28
J0250	30	32	4.13
K0289	20	21	5.34
K0292	16	23	5.88
* Mean TD Rating = 5.00 Standard Deviation = 1.00 High TD = 6.00			

TABLE 38

POI OBJECTIVES NOT SUPPORTED BY SURVEY DATA  
(LESS THAN 30 PERCENT MEMBERS PERFORMING)

UNIT	LEARNING OBJECTIVE	CODE	PERCENT MEMBERS PERFORMING				TSK DIF
			1ST	JOB (N=74)	ENL	(N=216)	
II.3.e.	Using proper safety equipment, set up an antenna in accordance with a locally developed checklist	PC/W					
Tasks	A0028. Set up antenna mast		22	24	24	5.54	
	A0016. Site radio antennas or equipment		15	20	20	5.91	
	A0059. Reconfigure antennas		12	16	16	5.21	
*	Mean TD Rating = 5.00   Standard Deviation = 1.00   High TD = 6.00						

TABLE 39

EXAMPLES OF TASKS PERFORMED BY 30 PERCENT OR MORE MEMBERS  
BUT NOT REFERENCED TO ANY POI OBJECTIVE

TASKS	1ST JOB (N=74)	1ST ENL (N=216)	TSK DIF
A0005 Connect or disconnect cryptographic equipment	41	49	4.42
A0030 Verifying keying of cryptographic equipment	43	55	4.65
F0135 Assemble, issue, retrieve, or break down of daily training communication kits	34	35	5.29
F0136 Assemble, issue, retrieve, or break down exercise or contingency conventional communication kits	34	34	5.33

\* Mean TD Rating = 5.00 Standard Deviation = 1.00 High TD = 6.00

TABLE 40

**JOB SATISFACTION INDICATORS FOR IDENTIFIED JOB GROUPS  
(PERCENT MEMBERS RESPONDING)**

	<b>RADIO OPERATION CLUSTER (N=261) (STG 24)</b>	<b>ASSEMBLY JOB (N=11) (STG 113)</b>	<b>CONFIGUR JOB (N=18) (STG 76)</b>	<b>RADIO MAINT JOB (N=10) (STG 126)</b>	<b>RADIO OPER JOB (N=162) (STG 73)</b>	<b>GLOBAL SYSTEM JOB (N=34) (STG 82)</b>
<u>EXPRESSED JOB INTEREST</u>						
INTERESTING	45	0	31	30	55	29
SO-SO	20	33	38	20	17	15
DULL	35	67	31	50	29	56
<u>PERCEIVED USE OF TALENTS</u>						
EXCELLENT TO PERFECT	11	0	15	10	14	3
FAIRLY WELL TO VERY WELL	46	0	31	30	52	47
NONE TO VERY LITTLE	43	100	54	60	34	50
<u>PERCEIVED USE OF TRAINING</u>						
EXCELLENT TO PERFECT	16	0	15	0	21	9
FAIRLY WELL TO VERY WELL	61	33	62	20	60	74
NONE TO VERY LITTLE	24	67	23	80	19	18
<u>SENSE OF ACCOMPLISHMENT FROM JOB</u>						
SATISFIED	50	0	62	50	53	41
NEUTRAL	16	0	15	40	13	18
DISSATISFIED	34	100	23	10	34	41
<u>REENLISTMENT INTENTIONS</u>						
YES OR PROBABLY YES	55	0	38	70	61	50
NO OR PROBABLY NO	36	100	62	30	26	44
WILL RETIRE	8	0	0	0	13	6

Note: Columns may not add to 100 due to rounding

TABLE 40 (CONTINUED)

JOB SATISFACTION INDICATORS FOR IDENTIFIED JOB GROUPS  
(PERCENT MEMBERS RESPONDING)

	COMBAT CREW CLUSTER (N=166) (STG 49)	COMBAT CREW JOB (N=109) (STG 77)	TRAINING JOB (N=57) (STG 72)	TRAINING/ MANAGEMENT IJ (N=10) (STG 86)	MILSTAR OPERATION IJ (N=49) (STG 109)
<u>EXPRESSED JOB INTEREST</u>					
INTERESTING	36	25	59	50	36
SO-SO	27	31	17	30	30
DULL	38	44	24	20	34
<u>PERCEIVED USE OF TALENTS</u>					
EXCELLENT TO PERFECT	4	5	2	20	11
FAIRLY WELL TO VERY WELL	46	37	66	60	38
NONE TO VERY LITTLE	50	59	32	20	51
<u>PERCEIVED USE OF TRAINING</u>					
EXCELLENT TO PERFECT	5	7	2	20	13
FAIRLY WELL TO VERY WELL	55	53	59	50	53
NONE TO VERY LITTLE	40	40	39	30	34
<u>SENSE OF ACCOMPLISHMENT FROM JOB</u>					
SATISFIED	52	49	56	60	43
NEUTRAL	17	17	17	10	19
DISSATISFIED	31	33	27	30	38
<u>REENLISTMENT INTENTIONS</u>					
YES OR PROBABLY YES	59	59	61	40	51
NO OR PROBABLY NO	28	37	10	20	45
WILL RETIRE	13	5	29	40	4

Note: Columns may not add up to 100 due to rounding



TABLE 41

COMPARISONS OF JOB SATISFACTION INDICATORS FOR AFSC 3C1X1  
AND COMPARATIVE SAMPLE GROUP  
(PERCENT MEMBERS RESPONDING)

	1-48 MONTHS' TAFMS 2003 3C1X1 SAMPLE (N=216)	49-96 MONTHS' TAFMS 2003 3C1X1 SAMPLE (N=53)	97+ MONTHS' TAFMS 2003 3C1X1 SAMPLE (N=142)	97+ MONTHS' TAFMS 2003 3C1X1 SAMPLE (N=1101)
<u>EXPRESSED JOB INTEREST</u>				
INTERESTING	25	38	65	75
SO-SO	30	19	19	14
DULL	45	43	16	12
<u>PERCEIVED USE OF TALENTS</u>				
EXCELLENT TO PERFECT	6	0	18	22
FAIRLY WELL TO VERY WELL	38	45	56	58
NONE TO VERY LITTLE	57	55	25	20
<u>PERCEIVED USE OF TRAINING</u>				
EXCELLENT TO PERFECT	9	4	18	15
FAIRLY WELL TO VERY WELL	57	58	54	54
NONE TO VERY LITTLE	34	38	28	30
<u>SENSE OF ACCOMPLISHMENT FROM JOB</u>				
SATISFIED	40	36	68	68
NEUTRAL	20	19	9	10
DISSATISFIED	39	45	23	22
<u>REENLISTMENT INTENTIONS</u>				
YES OR PROBABLY YES	51	57	66	72
NO OR PROBABLY NO	48	42	8	12
WILL RETIRE	1	2	26	35

\* Comparative sample of AFSCs surveyed in the last 12 months includes 3C0X1 and 3C2X1

TABLE 42

JOB SATISFACTION INDICATORS FOR  
AD, ANG, AND AFRC MEMBERS  
(PERCENT MEMBERS RESPONDING)

	AD (N=414)	ANG (N=68)	AFRC (N=85)
<u>EXPRESSED JOB INTEREST</u>			
INTERESTING	40	75	72
SO-SO	25	16	17
DULL	35	9	10
<u>PERCEIVED USE OF TALENTS</u>			
EXCELLENT TO PERFECT	9	16	14
FAIRLY WELL TO VERY WELL	45	64	60
NONE TO VERY LITTLE	46	20	26
<u>PERCEIVED USE OF TRAINING</u>			
EXCELLENT TO PERFECT	12	20	13
FAIRLY WELL TO VERY WELL	56	55	59
NONE TO VERY LITTLE	32	25	29
<u>SENSE OF ACCOMPLISHMENT FROM JOB</u>			
SATISFIED	49	77	68
NEUTRAL	16	10	16
DISSATISFIED	34	13	16

Note: Columns may not add to 100 due to rounding

TABLE 43

COMPARISONS OF JOB SATISFACTION INDICATORS  
BETWEEN CURRENT AND 2000 SURVEYS  
(PERCENT MEMBERS RESPONDING)

	1-48 MONTHS' TAFMS			49-96 MONTHS' TAFMS			97+ MONTHS' TAFMS		
	2003	2000		2003	2000		2003	2000	
	3C1X1	3C1X1		3C1X1	3C1X1		3C1X1	3C1X1	
	(N=216)	(N=195)		(N=53)	(N=54)		(N=142)	(N=238)	
<u>EXPRESSED JOB INTEREST</u>									
INTERESTING	25	32		38	26		65	58	
SO-SO	30	28		19	28		19	21	
DULL	45	39		43	46		16	21	
<u>PERCEIVED USE OF TALENTS</u>									
FAIRLY WELL TO PERFECT	44	49		45	48		74	68	
NONE TO VERY LITTLE	57	51		55	52		25	32	
<u>PERCEIVED USE OF TRAINING</u>									
FAIRLY WELL TO PERFECT	66	75		62	76		72	68	
NONE TO VERY LITTLE	34	25		38	24		28	32	
<u>SENSE OF ACCOMPLISHMENT FROM JOB</u>									
SATISFIED	40	38		36	41		68	63	
NEUTRAL	20	35		19	11		9	12	
DISSATISFIED	39	26		45	48		23	25	
<u>REENLISTMENT INTENTIONS</u>									
YES OR PROBABLY YES	51	49		57	57		66	68	
NO OR PROBABLY NO	48	51		42	43		8	13	
WILL RETIRE	1	0		2	0		26	19	

TABLE 44

**COMPARISON OF REENLISTMENT FACTORS BY TAFMS GROUPS –  
PERCENT OF RESPONDENTS SELECTING EACH FACTOR AND  
AVERAGE SCORE AMONG THOSE SELECTING EACH FACTOR**

31 FACTORS LISTED IN ORDER OF APPEARANCE IN SURVEY Scale: 1 = Slight Influence; 2 = Moderate Influence; 3 = Strong Influence	1-48 MONTHS' TAFMS (N=111)		49-96 MONTHS' TAFMS (N=30)		97+ MONTHS' TAFMS (N=94)	
	Percent Selecting	Average	Percent Selecting	Average	Percent Selecting	Average
MILITARY LIFESTYLE	49	2.28	74	2.32	52	2.24
PAY AND ALLOWANCES	47	2.53	67	2.45	41	2.33
BONUS OR SPECIAL PAY	26	2.52	37	2.36	10	2.30
RETIREMENT BENEFITS	37	2.71	63	2.79	66	2.66
MILITARY-RELATED EDU & TRNG OPPORTUNITIES	58	2.62	70	2.43	42	2.54
OFF-DUTY EDU OR TRAINING OPPORTUNITIES	56	2.70	59	2.50	53	2.48
MEDICAL/ DENTAL CARE FOR AD MEMBER	60	2.59	77	2.39	53	2.42
MEDICAL/ DENTAL CARE FOR FAMILY MEMBERS	36	2.72	53	2.81	47	2.40
BASE HOUSING	20	2.36	20	2.83	18	2.06
BASE SERVICES	21	2.08	33	2.10	18	2.17
CHILDCARE NEEDS	17	2.72	30	2.78	8	2.50
SPOUSE'S CAREER	8	2.44	13	2.75	5	2.40
CIVILIAN JOB OPPORTUNITIES	29	2.41	17	2.40	8	2.38
EQUAL EMPLOYMENT OPPORTUNITIES	22	2.29	3	3.00	6	2.67
NUMBER OF PCS MOVES	11	2.09	23	2.57	18	1.94
LOCATION OF PRESENT ASSIGNMENT	12	2.54	17	2.60	23	2.68
NUMBER/DURATION OF TDYS OR DEPLOYMENTS	14	2.13	26	2.38	11	2.18
WORK SCHEDULE	28	2.23	26	2.38	18	2.47
ADDITIONAL DUTIES	8	2.50	10	2.33	4	1.75
JOB SECURITY	54	2.75	67	2.75	60	2.54
ENLISTED EVALUATION SYSTEM	1	2.00	7	3.00	4	2.00
PROMOTION OPPORTUNITIES	28	2.58	33	2.70	25	2.35
TRAINING/EXPERIENCE OF UNIT PERSONNEL	22	2.46	13	2.75	13	2.08
UNIT MANNING	2	2.50	3	2.00	2	2.00
UNIT RESOURCES	6	2.14	3	2.00	4	2.00
UNIT READINESS	2	2.50	3	2.00	3	2.33
RECOGNITION OF EFFORTS	22	2.25	30	2.44	19	2.33
ESPRIT DE CORPS/MORALE	15	2.62	20	2.33	25	2.33
LEADERSHIP OF IMMEDIATE SUPERVISOR	19	2.55	13	2.75	17	2.38
LEADERSHIP AT UNIT LEVEL	13	2.40	10	2.33	23	2.23
SENIOR AIR FORCE LEADERSHIP	13	2.43	6	2.50	9	2.22

**TOP 5 REASONS FOR MEMBERS REENLISTING BY TAFMS GROUPS**

1-48 MONTHS' TAFMS (N=111)	49-96 MONTHS' TAFMS (N=30)	97+ MONTHS' TAFMS (N=94)
MEDICAL/ DENTAL CARE FOR AD MEMBER	MEDICAL/ DENTAL CARE FOR AD MEMBER	RETIREMENT BENEFITS
MILITARY-RELATED EDU & TRNG OPPORTUNITIES	MILITARY LIFESTYLE	JOB SECURITY
OFF-DUTY EDU OR TRAINING OPPORTUNITIES	MILITARY-RELATED EDU & TRNG OPPORTUNITIES	OFF-DUTY EDU OR TRAINING OPPORTUNITIES
JOB SECURITY	JOB SECURITY	MEDICAL/ DENTAL CARE FOR AD MEMBER
MILITARY LIFESTYLE	PAY AND ALLOWANCES	MILITARY LIFESTYLE

**TABLE 45**  
**COMPARISON OF SEPARATION FACTORS BY TAFMS GROUPS –**  
**PERCENT OF RESPONDENTS SELECTING EACH FACTOR AND**  
**AVERAGE SCORE AMONG THOSE SELECTING EACH FACTOR**

31 FACTORS LISTED IN ORDER OF APPEARANCE IN SURVEY Scale: 1 = Slight Influence; 2 = Moderate Influence; 3 = Strong Influence	1-48 MONTHS' TAFMS (N=103)		49-96 MONTHS' TAFMS (N=22)		97+ MONTHS' TAFMS (N=11)	
	Percent Selecting	Average	Percent Selecting	Average	Percent Selecting	Average
MILITARY LIFESTYLE	49	2.30	55	2.58	45	2.20
PAY AND ALLOWANCES	53	2.59	41	2.33	64	3.00
BONUS OR SPECIAL PAY	29	2.28	10	2.50	54	2.67
RETIREMENT BENEFITS	6	1.67	14	3.00	36	2.75
MILITARY-RELATED EDU & TRNG OPPORTUNITIES	21	2.05	10	2.50	9	1.00
OFF-DUTY EDU OR TRAINING OPPORTUNITIES	19	2.47	32	2.14	27	2.33
MEDICAL/ DENTAL CARE FOR AD MEMBER	20	2.20	14	1.67	18	3.00
MEDICAL/ DENTAL CARE FOR FAMILY MEMBERS	10	2.10	10	2.00	18	3.00
BASE HOUSING	7	1.86	18	2.00	27	2.67
BASE SERVICES	12	1.67	5	1.00	9	2.00
CHILDCARE NEEDS	7	2.57	15	2.00	27	3.00
SPOUSE'S CAREER	7	2.57	10	2.50	18	2.00
CIVILIAN JOB OPPORTUNITIES	31	2.47	24	2.40	36	3.00
EQUAL EMPLOYMENT OPPORTUNITIES	11	1.91	9	1.00	18	3.00
NUMBER OF PCS MOVES	19	2.47	14	2.33	27	2.67
LOCATION OF PRESENT ASSIGNMENT	43	2.45	28	2.83	45	2.60
NUMBER/DURATION OF TDYS OR DEPLOYMENTS	26	2.31	19	2.75	27	2.00
WORK SCHEDULE	22	2.23	45	2.80	36	2.25
ADDITIONAL DUTIES	12	2.17	24	1.60	9	2.00
JOB SECURITY	9	1.56	5	2.00	9	3.00
ENLISTED EVALUATION SYSTEM	10	2.50	32	2.00	36	2.25
PROMOTION OPPORTUNITIES	17	2.18	14	2.67	45	2.80
TRAINING/EXPERIENCE OF UNIT PERSONNEL	18	2.28	23	2.20	27	1.67
UNIT MANNING	21	2.38	37	2.38	27	1.67
UNIT RESOURCES	7	2.43	9	2.00	9	1.00
UNIT READINESS	9	2.33	0	.00	0	.00
RECOGNITION OF EFFORTS	37	2.29	59	2.38	27	2.33
ESPRIT DE CORPS/MORALE	24	2.60	59	2.38	45	2.60
LEADERSHIP OF IMMEDIATE SUPERVISOR	22	2.83	28	2.33	45	2.00
LEADERSHIP AT UNIT LEVEL	17	2.59	41	2.78	45	2.40
SENIOR AIR FORCE LEADERSHIP	15	2.60	18	3.00	45	2.40

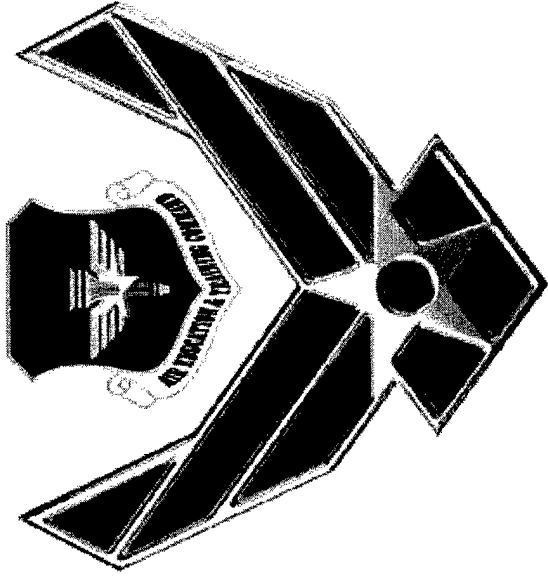
**TOP 5 REASONS FOR MEMBERS SEPARATING BY TAFMS GROUPS**

1-48 MONTHS' TAFMS (N=103)	49-96 MONTHS' TAFMS (N=22)	97+ MONTHS' TAFMS (N=11)
PAY AND ALLOWANCES	RECOGNITION OF EFFORTS	PAY AND ALLOWANCES
MILITARY LIFESTYLE	ESPRIT DE CORPS/MORALE	BONUS OR SPECIAL PAY
LOCATION OF PRESENT ASSIGNMENT	MILITARY LIFESTYLE	PROMOTION OPPORTUNITIES
RECOGNITION OF EFFORTS	WORK SCHEDULE	LOCATION OF PRESENT ASSIGNMENT
CIVILIAN JOB OPPORTUNITIES	LEADERSHIP AT UNIT LEVEL	ESPRIT DE CORPS/MORALE

# Air Education and Training Command

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*Sustaining the Combat Capability of America's Air Force*



## Occupational Survey Report AFSC 3C1X1 Radio Communications Systems

Lt Sabrina Ocampo  
12 March 03

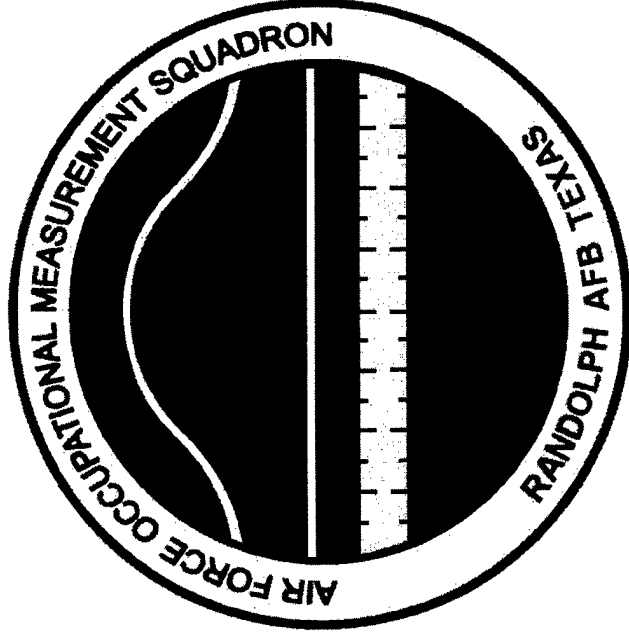
**U.S. AIR FORCE**

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*Integrity - Service - Excellence*

# Air Force Occupational Measurement SQ

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**AFOMS/OAE**

1550 Fifth Street East  
Randolph AFB, TX 78150

DSN 487-6811

<https://www-r.omsq.af.mil/OAE/indexomy.htm>

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***Integrity - Service - Excellence***

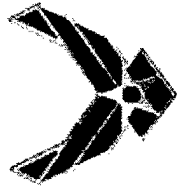


# Overview

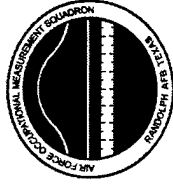


- Survey background
- Survey results
- Implications





# Work Performed



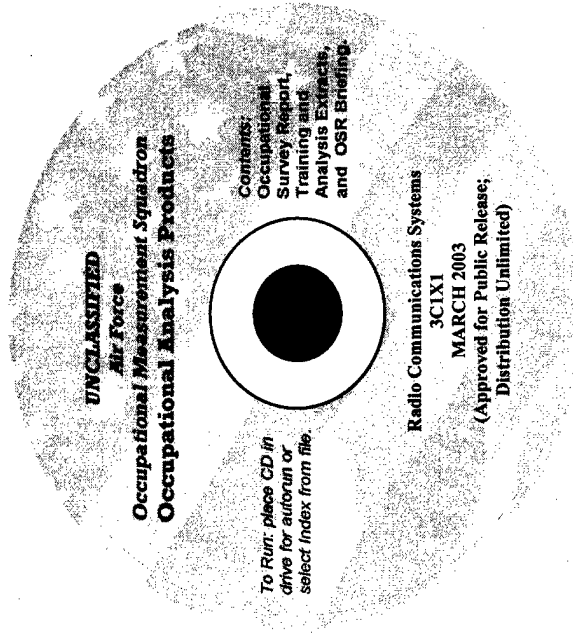
- Operate radio and satellite communications systems and computer terminals
- Tune transmitters, receivers, or transceivers to require signals on prescribed frequencies
- Adjust communications systems equipment, antenna systems, and terminal equipment to provide voice, digital, or analog operations
- Process communication traffic and copy transmissions.
- Process and relay operational, and administrative messages, including flight, command and control information, and weather data



# Survey Background



- Last occupational survey report (OSR):  
February 2000
- Current survey developed: April - June 2002
  - Keesler AFB MS (Tech School)
  - Hurlburt Field FL
  - Peterson AFB CO
  - Barksdale AFB LA
  - Lackland AFB TX
  - Andrews AFB MD





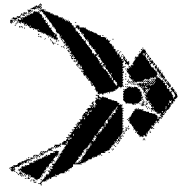
# Survey Background



# AETC

- Survey initiated to obtain data to:
  - Evaluate current classification and training documents
  - Support promotion test development
- Current survey data collected: June - September 2002
- Components surveyed:
  - Active Duty: 3-, 5-, 7-, and 9-Skill Levels
  - Guard: 5-, 7-, and 9-Skill Levels
  - Reserve: 5-, 7-, and 9-Skill Levels





# Current Training Program



- AFSC-awarding course
  - 336 TRS, Keesler AFB MS
  - E3ABR3C131-002, Radio Communications Systems  
Apprentice Course, 6 weeks, 1 day
  - 11 semester hours for CCAF

## Programmed TPR

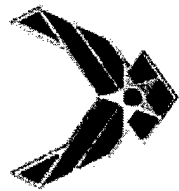
FY03: 162 students

FY04: 152 students

## Programmed Elimination Rate

FY03: 4%

FY04: 3%



# Survey Sample Characteristics

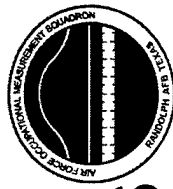


	<u>AD</u>	<u>ANG</u>	<u>AFRC</u>	<u>Total</u>
Assigned*	996	268	266	1,530
Mailed Out	873	237	233	1,343
Sampled	414	68	85	567
Usable Returns	47%	29%	36%	42%

- Average time in career field for AD: 6 yrs 8 months
- Average TAFMS for AD: 7 yrs 1 month
- Percent of AD in first enlistment: 53%

\* Assigned as of May 02

3C1X1



# Skill & Paygrade Characteristics



## Skill-Level Distribution

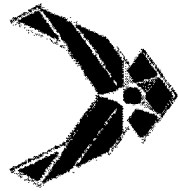
	Assigned*	Sample
3-Level -	22%	19%
5-Level -	48%	53%
7-Level -	28%	26%
9-Level -	3%	2%

## Paygrade Distribution

	Assigned*	Sample
E-1 - E-3 -	24%	21%
E-4 -	23%	26%
E-5 -	21%	23%
E-6 -	17%	15%
E-7 -	13%	14%
E-8 -	2%	1%

\* Assigned as of May 02

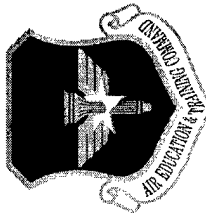
Note: Columns may not add up to 100% due to rounding



# Command Representation



# AETC

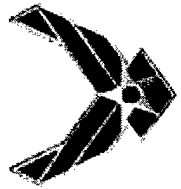


Command	Assigned %*	Sample %
AMC	25	27
ANG	18	12
AFRC	17	15
ACC	16	22
AFSOC	7	7
AFSPC	7	10
OTHER**	3	3
PACAF	2	2
USAFE	2	2

\* Assigned as of May 02

\*\* Other includes AETC, USSOC, and USSTRATCOM

Note: Columns may not add up to 100% due to rounding



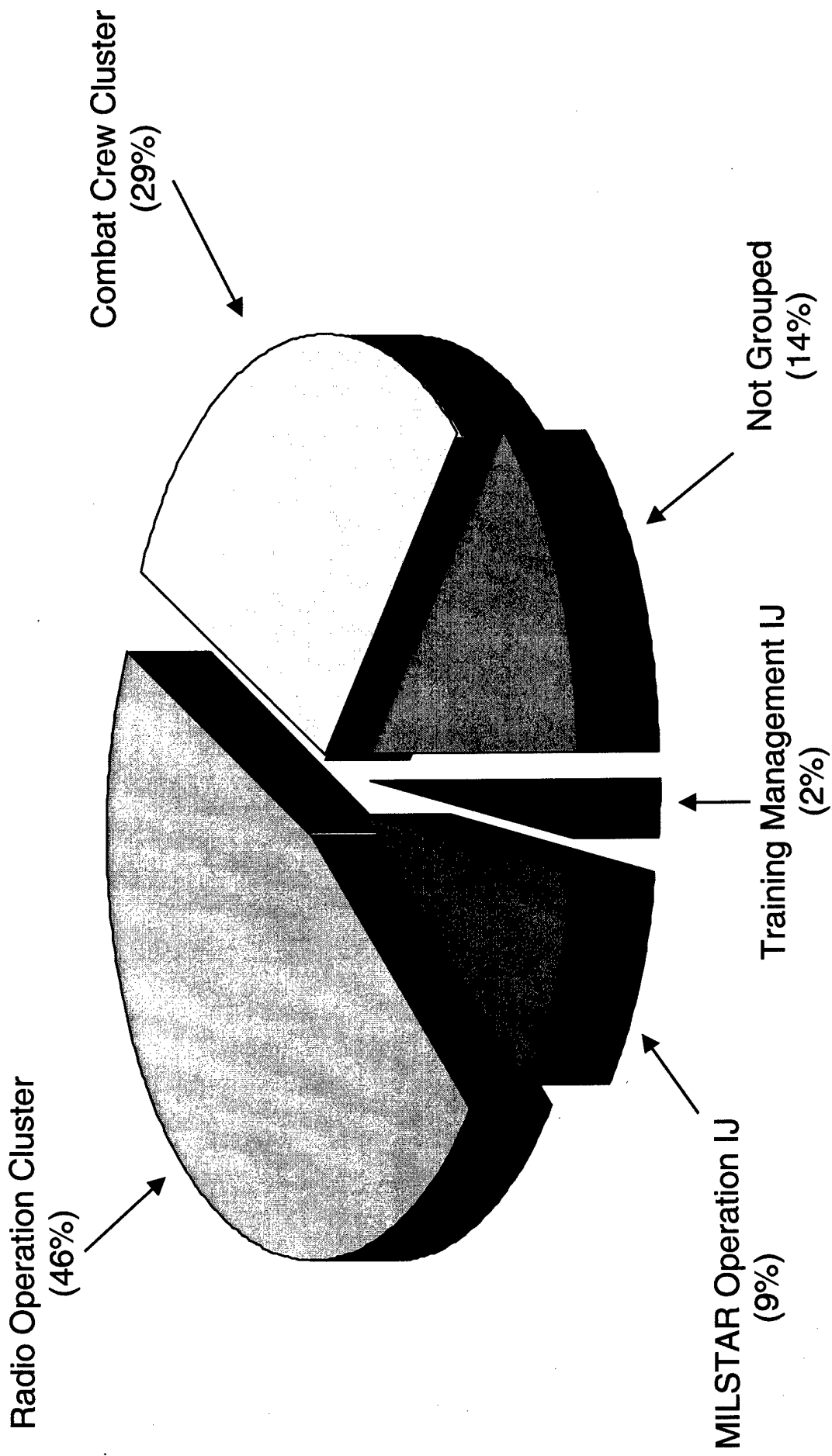
# AFSC 3C1X1 Career Ladder

## Job Structure

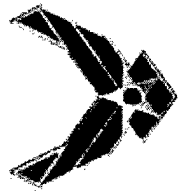


**AFSC**

(N= 567)





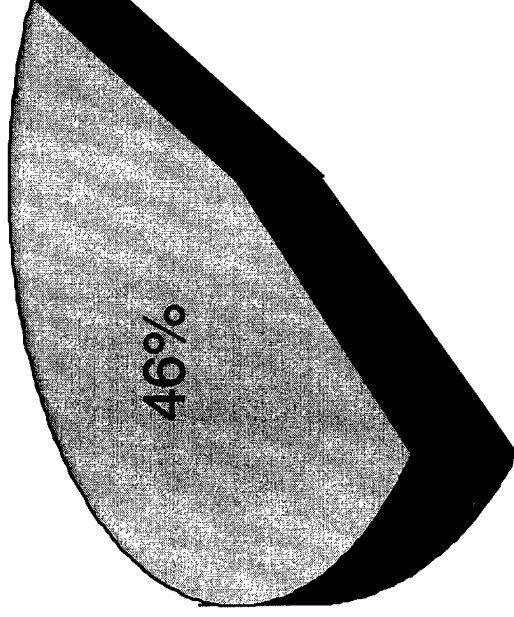


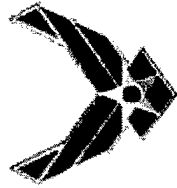
# Radio Operation Cluster (N=261)



- Key or zeroize secure cryptographic systems
- Connect or disconnect antennas to radio equipment
- Set up radio equipment
- Connect or disconnect cryptographic equipment
- Perform operational checks of radio systems
- Set up antenna masts

Assembly Job
Configuration Job
Radio Maintenance Job
Radio Operation Job
Global System Job



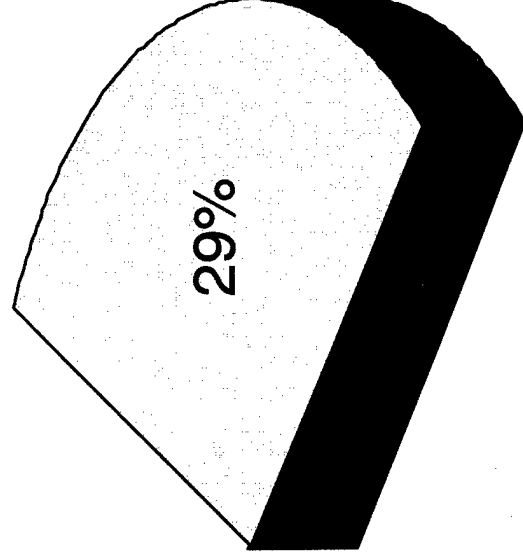


# Combat Crew Cluster (N=166)



- Maintain security or COMSEC forms for safes, containers, or rooms
- Establish or maintain accountability records for classified or COMSEC materials or documents
- Issue, load, or retrieve cryptographic systems
- Brief aircrew on communications procedures
- Review flying schedules

Combat Crew Communication Job
Training Job



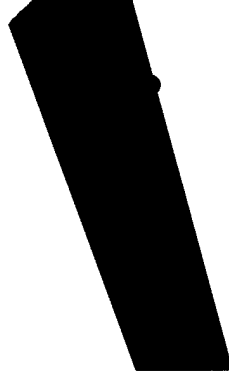


# Independent Jobs



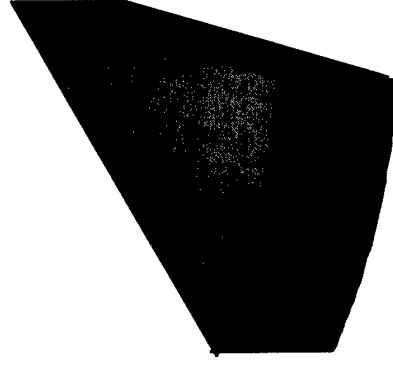
- Training/Management IJ (N=10)

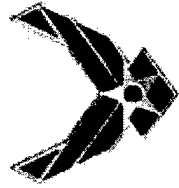
- Evaluate progress of trainees
- Counsel subordinates concerning personal matters
- Conduct on-the-job training
- Maintain training records or files



- MILSTAR Operation IJ (N=49)

- Perform ephemeris update procedures
- Log on or off MILSTAR networks or satellites
- Set up or tear down MILSTAR networks
- Perform over-the-air rekeying procedures

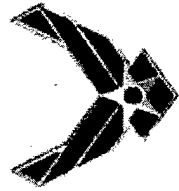




# Career Ladder Progression



- 3- and 5-skill-level personnel
  - Perform the most technical tasks in the career ladder
  - Spend the most of their time on combat crew and radio operations tasks
- 7-skill-level personnel
  - Continue to perform technical tasks
  - However, take on supervisory, training, and administrative duties
- 9-skill-level personnel
  - Guard and Reserve perform technical tasks as well as management, supervisory, and training activities

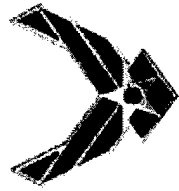


# Percent Across Specialty Jobs

## DAFSC



	DAFSC	DAFSC	DAFSC	DAFSC	DAFSC
	3C131	3C151	3C171	3C191	
	(N=107)	(N=302)	(N=145)	(N=13)	
Radio Operation Cluster	49	45	47	31	
Combat Crew Cluster	31	27	30	54	
Training/Management IJ	1	1	4	0	
MILSTAR Operation IJ	4	13	5	0	
Not Grouped	15	14	14	15	



# Career Ladder Progression Percent Time Spent on Duties

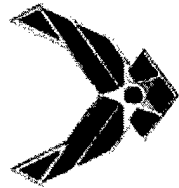


(N=567)

DUTY AREAS	DAFSC 3C131 (N=107)	DAFSC 3C151 (N=302)	DAFSC 3C171 (N=145)	DAFSC 3C191 (N=13)
A. Setting Up Radio Equipment	17	17	10	7
B. Configuring Radio Equipment	6	5	3	2
C. Maintaining Radio Equipment	4	4	3	2
D. Performing Radio Operational Procedures	16	12	9	7
E. Troubleshooting Radio Equipment	3	4	4	3
F. Performing Combat Crew Communications Activities	11	9	7	11
G. Performing Satellite Communications (SATCOM) Activities	2	3	2	*
H. Performing MILSTAR Satellite Communications Activities		5	8	4
I. Performing General Administrative And Technical Order (TO) System Activities	17	17	16	17
J. Performing General Supply And Equipment Activities	4	3	3	4
K. Performing Mobility And Contingency Activities	3	4	8	12
L. Performing Training Activities	5	7	10	13
M. Performing Management And Supervisory Activities	5	7	21	22

\* Less than 1%

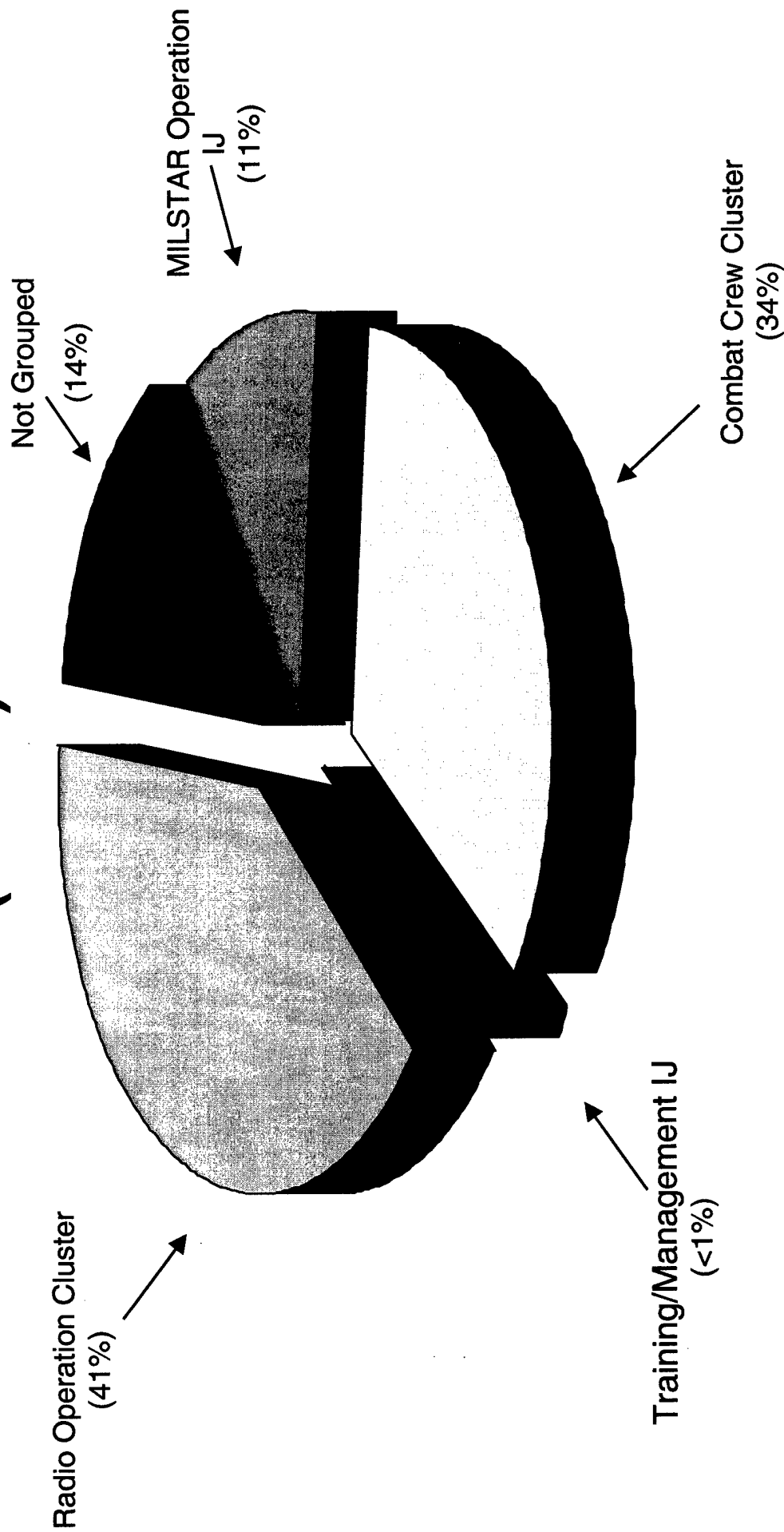
Note: Columns may not add up to 100% due to rounding



# First-Enlistment Job Structure



(N=216)



Note: Chart may not add up to 100% due to rounding



# First-Enlistment Personnel Representative Tasks

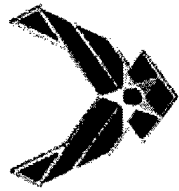


Percent  
Members  
Performing  
\_\_\_\_\_(N=216)

## Tasks

Key or zeroize secure cryptographic systems	76
Destroy classified or COMSEC materials or documents	73
Establish or maintain accountability records for classified or COMSEC materials or documents	60
Verify keying or cryptographic equipment	55
Maintain security or COMSEC forms for safes, containers, or rooms	52
Connect or disconnect cryptographic equipment	49
Store classified or COMSEC materials or documents, other than at deployed locations	46
Issue, load or retrieve cryptographic equipment	46
Perform radio checks	44





# First-Enlistment Personnel Systems, Bands, & Communication Modes Used or Operated



Percent

Members

Responding

(N=216)

## Fixed Systems:

MILSTAR

Global High Frequency

## Frequency Bands:

High Frequency

Ultra High Frequency

Very High Frequency

## Communication Modes:

Data Transmission

Upper Sideband

Single Sideband

Frequency Modulation

Demand Assigned Multiple Access

Have Quick

Amplitude Modulation

## Mobile/Deployable Communication Systems:

Satellite Communications

Radios, Handheld

Radios, Backpack

3C1XIII STAR

22

18

44

33

20

33

32

26

25

23

23

20

26

20

16

13



# Specialty Training Standard (STS) Analysis

---



- Overall, the STS is well-supported by survey data
  - Only one STS items were unsupported
- Items that were not referenced to any STS elements
  - Five unreferenced JI tasks were performed by more than 20 percent of members

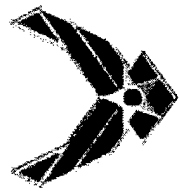


# Unsupported STS Element



Unit	Learning Objective	Percent Members Performing				Task	
		Prof	1st	Job	Enl	1st	Dif
		Code					
7.1.2	Emergency Action Message	2b					
Task	D0106. Prepare messages using Emergency Action Message format		14	14	14	4.65	

Mean TD Rating is 5.00, Standard Deviation is 1.00 (HIGH TD= 6.00)



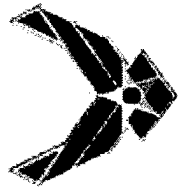
# Tasks Not Referenced to STS



## Percent Members Performing

Task	1 <sup>st</sup>	1 <sup>st</sup>	Tsk
	Job	Enl	Dif
B0053 Configure transceivers for clear or secure voice operation	22	22	4.96
J0248 Identify and report equipment or supply problems	20	23	4.28
J0250 Inventory equipment, tools, parts, or supplies	30	32	4.13
K0289 Prepare equipment for deployment	20	21	5.34
K0292 Process classified or COMSEC materials or documents at deployed locations	16	23	5.88

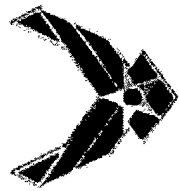
Mean TD Rating is 5.00, Standard Deviation is 1.00 (HIGH TD= 6.00)



# Plan of Instruction (POI) Analysis



- POI is well-supported by survey data
  - One learning objectives matched to three JI tasks performed by less than 30% of members
- Tasks not referenced to any POI learning objective should be reviewed for possible inclusion in POI
  - Four unreferenced JI tasks were performed by over 30% of members



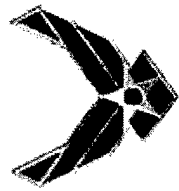
# Unsupported POI Objective



Percent  
Members  
Performing

Tasks	1 <sup>st</sup>	1 <sup>st</sup>	Tsk
	Job	Enl	Dif
II.3.e. Using proper safety equipment set up an antenna in accordance with a locally developed checklist			
A0028. Set up antenna mast	22	24	5.54
A0016. Site radio antennas or equipment	15	20	5.91
A0059. Reconfigure antennas	12	16	5.21

Mean TD Rating is 5.00, Standard Deviation is 1.00 (HIGH TD= 6.00)



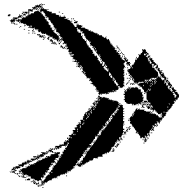
# Tasks Not Referenced to POI



## Percent Members Performing

Tasks	1 <sup>st</sup>	1 <sup>st</sup>	Tsk	
	Job	Enl	Enl	Dif
A0005	Connect or disconnect cryptographic equipment	41	49	4.42
A0030	Verifying keying of cryptographic equipment	43	55	4.65
F0135	Assemble, issue, retrieve, or break down daily training communication kits	34	35	5.29
F0136	Assemble, issue, retrieve, or break down exercise or contingency conventional communication kits	34	34	5.33

Mean TD Rating is 5.00, Standard Deviation is 1.00 (HIGH TD= 6.00)



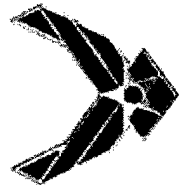
# Job Satisfaction Indicators (AFSC 3C1X1 vs. Comparative Sample)



	1-48 Months		49-96 Months		97+ Months	
	2003 3C1X1 (N=216)	Comp Sample* (N=822)	2003 3C1X1 (N=53)	Comp Sample* (N=372)	2003 3C1X1 (N=142)	Comp Sample* (N=1,101)
Job interesting	25	66	38	68	65	75
Talents well utilized	44	75	45	73	74	80
Training well utilized	66	67	62	66	72	69
Sense of accomplishment	40	62	36	63	68	68
Plan to reenlist	51	67	57	66	66	72

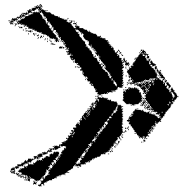
\* Comparative sample of AFSCs surveyed in the last 12 months includes: 3C0X1 and 3C2X1





# Job Satisfaction Indicators (Current vs. Previous Study)

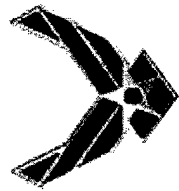
	1-48 Months		49-96 Months		97+ Months	
	2003 (N=216)	2000 (N=195)	2003 (N=53)	2000 (N=54)	2003 (N=142)	2000 (N=238)
Job interesting	25	32	38	26	65	58
Talents well utilized	44	49	45	48	74	68
Training well utilized	66	75	62	76	72	68
Sense of accomplishment	40	38	36	41	68	63
Plan to reenlist	51	49	57	57	66	68



# Job Satisfaction Indicators (AD) (Across Specialty Jobs)



	Radio Operation Cluster (N=261)	Combat Crew Cluster (N=166)	Training/ Mgmt IJ (N=10)	MILSTAR Operation IJ (N=49)
Job interesting	45	36	50	36
Talents well utilized	57	50	80	49
Training well utilized	77	55	70	66
Sense of accomplishment	50	52	60	43
Plan to reenlist	55	59	40	51



# Retention Dimensions First-Term Airmen (N=214)



	Percent Responding	Average
Planning to Reenlist (N=111)		
Medical or dental care for AD members	60	2.59
Military-related education/training opportunities	58	2.62
Off-duty education and training opportunities	56	2.70
Job security	54	2.75
Military lifestyle	49	2.28

## Planning to Separate (N=103)

Pay and allowances	53	2.59
Military lifestyle	49	2.30
Location of present assignment	43	2.45
Recognition of efforts	37	2.29
Civilian job opportunities	31	2.47

Scale: 1 = slight influence, 2 = moderate influence, 3 = strong influence

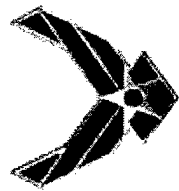


# Retention Dimensions Second-Term Airmen (N=52)



	Percent Responding	Average
<b>Planning to Reenlist (N=30)</b>		
Medical or dental care for AD members	77	2.39
Military lifestyle	74	2.32
Military-related education/training opportunities	70	2.43
Job security	67	2.75
Pay and allowances	67	2.45
<b>Planning to Separate (N=22)</b>		
Recognition of efforts	59	2.38
Esprit de corps or morale	59	2.38
Military lifestyle	55	2.58
Work schedule	45	2.80
Leadership at unit level	41	2.78

Scale: 1 = slight influence, 2 = moderate influence, 3 = strong influence



# Retention Dimensions Career Airmen (N=105)



	Percent Responding	Average
Planning to Reenlist (N=94)		
Retirement benefits	66	2.66
Job security	60	2.54
Off-duty education and training opportunities	53	2.48
Medical or dental care for AD members	53	2.42
Military lifestyle	52	2.24
Planning to Separate (N=11)		
Pay and allowances	64	3.00
Bonus or special pay	54	2.67
Promotion opportunities	45	2.80
Location of present assignment	45	2.60
Esprit de corps/morale	45	2.60

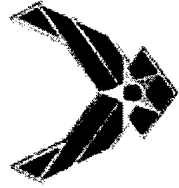
Scale: 1 = slight influence, 2 = moderate influence, 3 = strong influence



# Summary of Results



- Career ladder progression typical for AD
  - Highly technical at 3 and 5-skill level progressing to more managerial at 7-skill level
  - 9-skill level Guard and Reserve are performing technical tasks as well as managerial tasks
- Career ladder documents well-supported by survey data
  - STS and POI provide comprehensive coverage of work performed by career ladder
  - Review of some items warranted
- Job satisfaction indicators
  - Low job satisfaction in all areas when compared to similar AFSCs
  - Similar when compared to previous study across all TAFMS groups



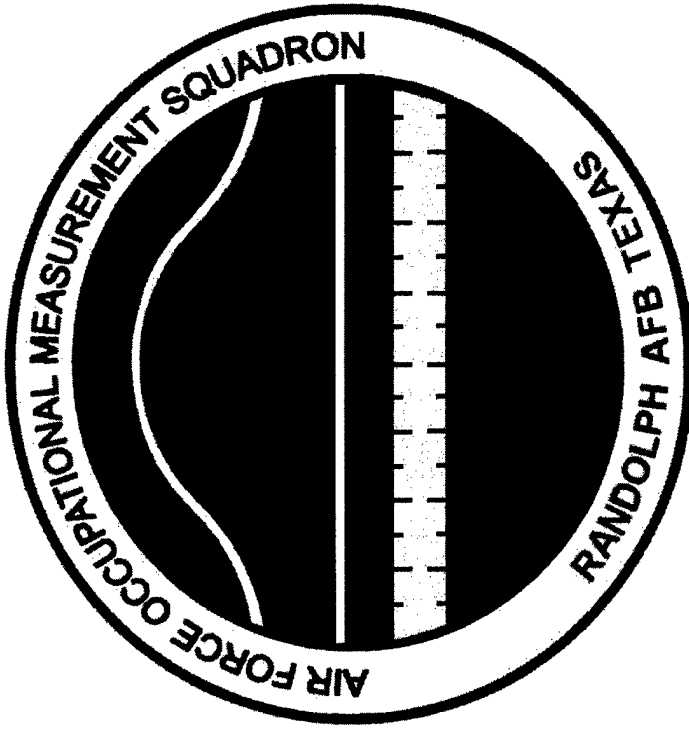
# Way Ahead



- OSR Delivery Trip – April 03
- Utilization and Training Workshop (U&TW) – 20 Oct 03
- Data used for rewrite (minor) – Nov 02
  - Next SKT rewrite (major) – 18 Nov 03



# Questions?



Visit our web site at:

<https://www-r.omsq.af.mil/OAE/indexomy.htm>

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