UNITED STATES AIR FORCE

OCCUPATIONAL SURVEY REPORT

GROUND RADAR SYSTEMS

AFSC 2E0X1

OSSN 2299

SEPTEMBER 1998

OCCUPATIONAL ANALYSIS PROGRAM
AIR FORCE OCCUPATIONAL MEASUREMENT SQUADRON
AIR EDUCATION AND TRAINING COMMAND
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333 TRS/Q FLIGHT	1		1	
334 TRS/TTERC (700 HANGAR ROAD, KEESLER AFB MS 39534-5000)	5	1	5	2

TABLE OF CONTENTS

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TABLE OF CONTENTS
(Tables, Figures, Appendices)

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PREFACE

This report presents the results of an Air Force Occupational Survey of the Ground Radar Systems career ladder, Air Force Specialty Code (AFSC) 2E0X1. Authority for conducting occupational surveys is contained in AFI 36-2623. Copies of this report and pertinent computer printouts are distributed to the Air Force Functional Manager, the technical training location, all major using commands, and other interested operations and training officials.

The survey instrument was developed by First Lieutenant Todd L. Osgood, Inventory Development Specialist, with computer programming support furnished by Mrs. Jeanie C. Guesman and administrative support provided by Mr. Richard G. Ramos. First Lieutenant Diedre N. Presley and First Lieutenant Charlie L. Law, Occupational Analysts, analyzed the data and wrote the final report. This report has been reviewed and approved by Lieutenant Colonel Roger W. Barnes, Chief, Airman Analysis Section, Occupational Analysis Flight, Air Force Occupational Measurement Squadron (AFOMS).

Additional copies of this report can be obtained by writing to AFOMS/OMYXI, 1150 5th Street East, Randolph AFB Texas 78150-4449, or by calling DSN 487-5543. For information on the Air Force occupational survey process or other on-going projects, visit our web site at http://www.omsq.af.mil.

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SUMMARY OF RESULTS

1. **Survey Coverage**: The Ground Radar Systems career ladder was surveyed to obtain current task and equipment data for use in evaluating current training programs. Survey results are based on responses from 1,064 respondents (64 percent of total number surveyed). The survey sample satisfactorily represents the overall career ladder population.

2. **Specialty Jobs**: Three clusters and six independent jobs were identified in the career ladder analysis. The six independent jobs identified were: Maintenance Control, Maintenance Support Evaluator, Engineering and Installation, Radar Evaluation, Contract Evaluator/Quality Assurance, and Technical Order Personnel. The four jobs comprising the Radar Systems Maintenance Cluster were: Aircraft and Warning Radar Technician, Air Traffic Control Radar Technician, Mobil Air Traffic Control Radar Technician, and Automatic Tracking Radar Technician. The three jobs comprising the Supervisory and Management Cluster were: Chiefs, Superintendents, and NCOICs. The four jobs comprising the Training Cluster were: Training Manager, Instructor, Training NCO, and CDC writer.

3. **Career Ladder Progression**: Skill-level progression for members of this AFSC is typical of most career ladders. Personnel at the 3- and 5-skill levels perform many tasks in common and both groups spend the vast majority of their relative job time performing general maintenance activities. At the 7-skill level, although members still perform technical tasks, a shift toward supervisory and management functions is evident. Personnel at the 9-skill level spend their relative job time performing management and supervisory activities.

4. **Training Analysis**: A comprehensive review of the Specialty Training Standard (STS) found that most paragraphs were supported by the survey data. However, two areas in the STS display tasks with less than the recommended percent members performing. These areas should be reviewed to determine any modifications required to improve the effectiveness or efficiency of training. The Plan of Instruction was not covered in this report due to recent changes being worked at the technical school.

5. **Job Satisfaction Analysis**: In general, job satisfaction among AFSC 2E0X1 personnel is high. Data show AFSC 2E0X1 personnel satisfaction indicators are comparable with their counterparts in other mission equipment management AFSCs. Overall, respondents within the various job groups find their work interesting and feel their talents and training are well used.

6. **Implications**: Survey results indicate the present classification structure is supported by survey data. Career ladder training documents are well supported by survey data and the overall training system is perceived to be working well, based on career ladder member responses. Responses by sample personnel reflect positive feelings toward their jobs and training.

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OCCUPATIONAL SURVEY REPORT (OSR)
GROUND RADAR SYSTEMS
(AFSC 2E0X1)

INTRODUCTION

This is a report of an occupational survey of the Ground Radar Systems (AFSC 2E0X1) career ladder completed by the Air Force Occupational Measurement Squadron. These data will be used to review the AFMAN 36-2108 *Airman Classification* and training documents. The last OSR was published in August 1995.

Background

As described in the AFMAN 36-2108 *Airman Classification*, dated 11 March 1998, personnel in this career ladder install, maintain, and repair fixed or mobile air traffic control, weather, ground aircraft control and warning, and automatic tracking radar systems. Also included are electronic combat systems and associated closed circuit television display and signal analysis equipment, related radar operator training devices, radar beacon systems, aircraft identification equipment, remoting systems, video mappers, computerized processors, and communications subsystems. Ground Radar Systems personnel operate and relocate automatic tracking radar and electronic combat systems; signal analysis equipment; and related support and communications equipment. They evaluate and resolve problems encountered during siting, installing, repairing, and overhauling ground radar systems and use layout drawings, schematics, and pictorial diagrams to solve maintenance problems. They also establish work standards, methods, and controls for functions such as periodic inspections, operational testing, and equipment repair. Further responsibilities include developing and enforcing safety standards and practices for ground radar maintenance activities.

Entry into the career ladder currently requires an Armed Services Vocational Aptitude Battery Electronic score of 67. The sequence of technical training for this AFSC begins with attending a 169-day Ground Radar Systems Apprentice Course conducted at Keesler AFB MS. The course curriculum includes training generic apprenticeship knowledge required to support installation, maintenance, and repair of fixed or mobile air traffic control, weather, ground aircraft control and warning, and automatic tracking radar systems; electronic combat systems; and associated closed circuit television display equipment, signal analysis equipment, related radar operator training devices, radar beacon systems, aircraft identification equipment, remoting systems, video mappers, computerized processors, common and specialized radar test equipment

and communications subsystems in support of the ground radar systems specialist career field. Upon successful completion of the Ground Radar Systems Apprentice Course, students are awarded the 3-skill level.

SURVEY METHODOLOGY

Inventory Development

The data collection instrument for this occupational survey was USAF Job Inventory (JI) OSSN 2299, dated July 1997. A tentative task list was prepared after reviewing pertinent career ladder publications and directives, pertinent tasks from the previous survey instrument, and data from the last OSR. The preliminary task list was refined and validated through personal interviews with 41 subject-matter experts (SMEs) at the technical training location and at the following operational bases:

BASE	UNIT VISITED
Keesler AFB MS	344 TRS/TTERC
Hill AFB UT	729 ACS/LGCR 84 RADES/TOSR
Mountain Home AFB ID	366 RANS/CS
Laughlin AFB TX	47 COM/CC
Tinker AFB OK	32,33,34 CCS/CYC

The resulting JI contains a comprehensive listing of 1,093 tasks grouped under 21 duty headings and a background section requesting such information as grade, duty title, organizational level, type of facility where employed, test equipment operated, coder-decoder systems maintained, interrogator-responder sets maintained, ancillary equipment maintained, radar equipment evaluated, air traffic control radar equipment used, aerospace control and warning radar equipment used, and automatic tracking radar equipment operated or maintained.

Survey Administration

From September 1997 through January 1998, Base Training Offices administered the inventory to 1,675 eligible Active Duty and Air National Guard AFSC 2E0X1 personnel. To qualify for the survey, personnel were required to hold a duty AFSC of 2E031, 2E051, 2E071, 2E091, or 2E000. Excluded from the survey were personnel in PCS, student, or hospital status, or with less than 6 weeks on the job. Job incumbents were selected from a computer-generated mailing list obtained from personnel data tapes maintained by the Air Force Personnel Center, Randolph AFB TX.

Each individual who completed the inventory first completed an identification and biographical information section and then checked each task performed in his or her current job. After checking all tasks performed, each member then rated each of these tasks on a 9-point scale, showing relative time spent on that task, as compared to all other tasks checked. The ratings ranged from 1 (very small amount time spent) through 5 (about average time spent) to 9 (very large amount time spent).

To determine relative time spent for each task checked by a respondent, all of the incumbent's ratings are assumed to account for 100 percent of his or her time spent on the job and are summed. Each task rating is then divided by the total task ratings and multiplied by 100 to provide a relative percentage of time spent for each task. This procedure provides a basis for comparing tasks in terms of both percent members performing and average percent time spent.

Survey Sample

Personnel were selected to participate in this survey so as to ensure an accurate representation across major commands (MAJCOM) and paygrade groups. All eligible AFSC 2E0X1 personnel were mailed survey booklets. Table 1 reflects the percentage distribution, by MAJCOM, of assigned AFSC 2E0X1 personnel as of September 1997. The 1,064 respondents in the final sample represent 58 percent of the total assigned personnel. Table 2 reflects the paygrade distribution for these AFSC 2E0X1 personnel.

Task Factor Administration

Job descriptions alone do not provide sufficient data for making decisions about career ladder documents or training programs. Task factor information is needed for a complete analysis of the career ladder. While most participants in the survey process completed an USAF JI, selected senior AFSC 2E0X1 personnel were also asked to complete booklets rendering judgments on task training emphasis (TE) or task difficulty (TD). The TE and TD booklets were processed separately from the JIs. The information gained from these task factor data is used in various analyses and is a valuable part of the training decision process.

Training Emphasis (TE). TE is a rating of the amount of emphasis that should be placed on tasks in entry-level training. The 61 senior AFSC noncommissioned officers (NCOs) who completed a TE booklet were asked to select tasks they felt required some sort of structured training for entry-level personnel and then indicate how much training emphasis these tasks should receive, from 1 (extremely low emphasis) to 9 (extremely high emphasis). Structured training is defined as training provided at resident technical schools, field training detachments, mobile training teams, formal on-the-job-training (OJT), or any other organized training method. The interrater reliability was excellent, indicating very strong agreement among the 61 raters as to which tasks required some form of structured training and which did not. The average TE rating was 1.46, with a standard deviation of 1.17. Any task with a TE rating of 2.63 or above is considered to have high TE.

Task Difficulty (TD). TD is an estimate of the amount of time needed to learn how to do each task satisfactorily. The 86 senior NCOs who completed TD booklets were asked to rate the difficulty of each task using a 9-point scale (extremely low to extremely high). Interrater reliability was acceptable, with high agreement. Ratings were standardized, so tasks have an average difficulty of 5.00 and a standard deviation of 1.00. Any task with a TD rating of 6.00 or above is considered to be difficult to learn.

When used in conjunction with the primary criterion of percent members performing, TE and TD ratings can provide insight into first-enlistment personnel training requirements. Such insights may suggest a need for lengthening or shortening portions of instruction supporting entry-level jobs.

SPECIALTY JOBS
(Career Ladder Structure)

The occupational analysis process begins with an examination of the career ladder structure. The structure of jobs within the Ground Radar Systems career ladder was examined on the basis of similarity of tasks performed and the relative percent of time spent ratings provided by job incumbents, independent of other specialty background factors.

The first step in the analysis process is to identify the structure of the career ladder in terms of the jobs performed by the respondents. Comprehensive Occupational Data Analysis Programs (CODAP) assist by creating an individual job description for each respondent based on the tasks performed and relative amount of time spent on the 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 then combines them to form a composite job description. In successive stages, new members are added to the initial group or new groups are formed based on the similarity of tasks performed and time spent ratings.

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*. The structure of the career ladder is then defined in terms of jobs and clusters of jobs. The resulting job structure information can be used to evaluate the accuracy of career ladder documents (i.e., AFMAN 36-2108 *Airman Classification*, the Career Field Education and Training Plan, and Specialty Training Standard (STS)) and to gain a better understanding of current utilization patterns.

Overview of Specialty Jobs

Structure analysis identified three clusters and six jobs within the survey sample. Based on task similarity and relative time spent, the jobs performed by AFSC 2E0X1 personnel are illustrated in Figure 1. A listing of those jobs is provided below. The stage (ST) number shown beside each title is a reference to computer-printed information; the number of personnel in each stage (N) is also shown.

I. RADAR SYSTEMS MAINTENANCE CLUSTER (ST096, N=507)

- A. Aircraft Control and Warning (AC&W) Radar Technician Job (ST173, N=196)
- B. Air Traffic Control (ATC) Radar Technician Job (ST302, N=27)
- C. Mobil Air Traffic Control (ATC) Radar Technician Job (ST320, N=72)
- D. Automatic Tracking Radar (ATR) Technician Job (ST273, N=7)

II. MAINTENANCE CONTROL JOB (ST131, N=40)

III. MAINTENANCE SUPPORT EVALUATOR JOB (ST128, N=32)

IV. ENGINEERING AND INSTALLATION JOB (ST039, N=27)

V. RADAR EVALUATION JOB (ST271, N=18)

VI. CONTRACT EVALUATOR/QUALITY ASSURANCE JOB (ST141, N=16)

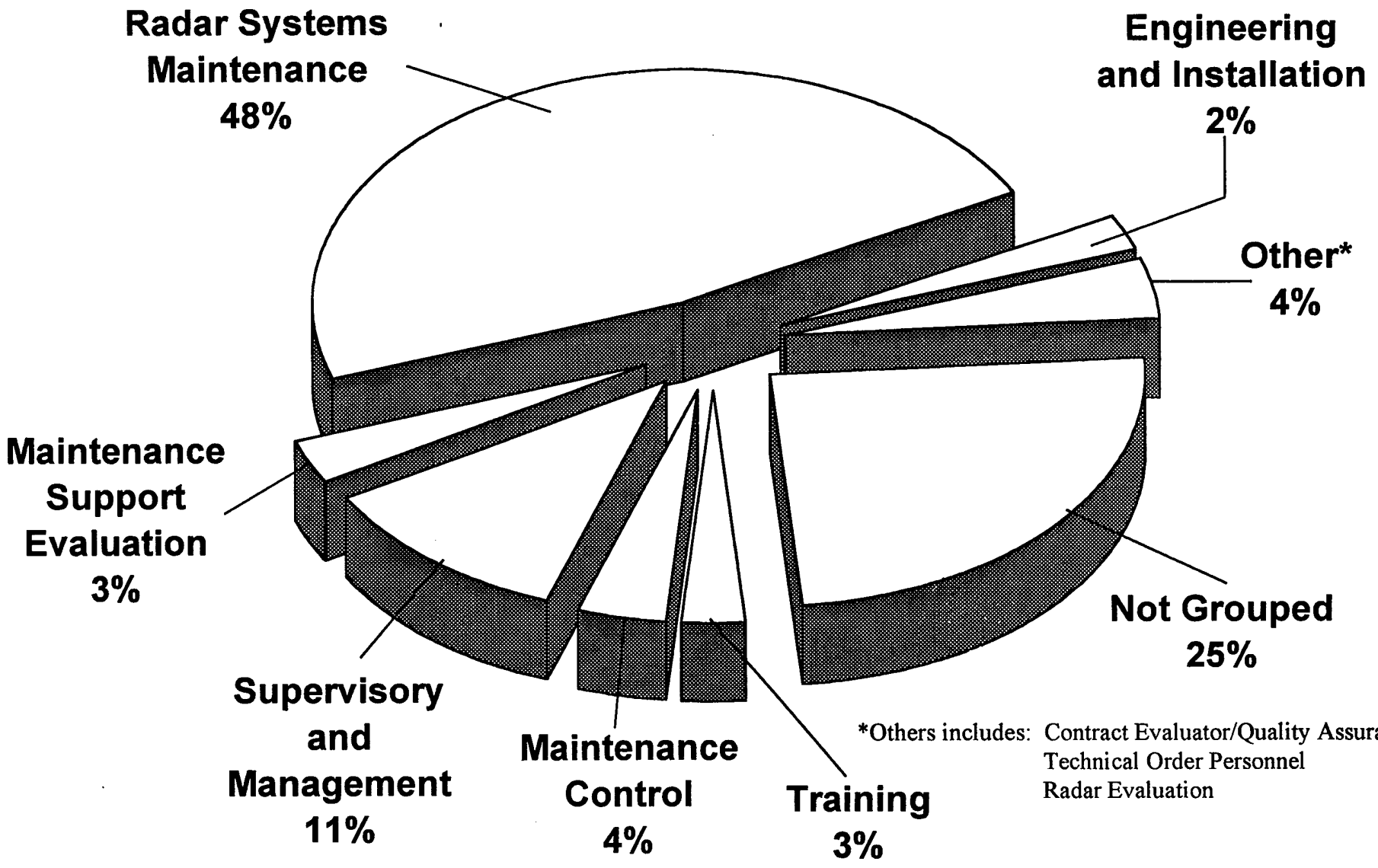
VII. TECHNICAL ORDER PERSONNEL JOB (ST104, N=9)

VIII. TRAINING CLUSTER (ST068, N=30)

IX. SUPERVISORY AND MANAGEMENT CLUSTER (ST079, N=122)

2E0X1 CAREER LADDER JOBS

Figure 1



*Others includes: Contract Evaluator/Quality Assurance
Technical Order Personnel
Radar Evaluation

The respondents forming these jobs account for 75 percent of the survey sample. The remaining 25 percent are performing tasks or a series of tasks that did not group with any of the defined jobs. Some of the job titles given by respondents representative of these personnel include: Deployment Planner, Electronics Technician, Electronic Mechanic, Cyber Grunt, Fax Chief, Environmental Specialist, Wing Exercise Evaluator, Team Member.

Group Descriptions

The following paragraphs contain brief descriptions of the jobs identified through the career ladder structure analysis. Table 3 presents the relative time spent on duties by members of these specialty jobs. Selected background data for these jobs are provided in Table 4. Representative tasks for all the jobs are contained in Appendix A.

I. RADAR SYSTEMS MAINTENANCE CLUSTER (ST096). This cluster represents the core jobs of the Ground Radar Systems career ladder. The 507 members in this cluster represent the largest identified group, encompassing 48 percent of the survey sample. This functional area is characterized by the commonality of tasks associated with the maintenance of radar systems. Tasks performed by these members encompass the essence of Ground Radar Systems activities as members repair, overhaul, maintain, and install radar systems. Because this is the core job of the Ground Radar Systems career ladder, members spend relatively high amounts of time performing tasks in all duties (see Table 3). They spend 15 percent of their time performing general maintenance activities, 12 percent maintaining radar transmitter systems, 11 percent maintaining receiver or processor systems, and 10 percent maintaining antenna and waveguide systems. The following tasks demonstrate the nature of work performed by these individuals:

perform equipment maintenance using test equipment
perform PMIs on transmitter systems
read and interpret equipment technical manuals
perform PMIs on antenna systems
clean or replace filters
perform general soldering
perform visual inspections of communications-electronics systems
input core automated maintenance system (CAMS) data on computer terminals
perform PMIs on receiver or processor systems
research Federal Logistics (FEDLOG) systems
perform corrosion control on mechanical assemblies, such as antenna towers, equipment racks, or equipment vans

Personnel in this cluster average 9 years TAFMS. The majority of personnel in this cluster are in the paygrades of E-4 through E-6, and most hold a 5-skill level (see Table 3). Forty-six percent of all members in this group are currently supervising others. Members average 257 tasks performed, the most of any group.

There is a high overlap in tasks performed across radar types; however, radar system-specific tasks did break the area into four distinct jobs, according to the specific type of radar being maintained. There are AC&W Radar Technicians who are predominately E-4s and E-5s holding a 5-skill level. They perform an average of 153 tasks, the majority of which are general maintenance activities. A few of the AC&W radars maintained include the TLQ-32, TPS-75, and the TPS-43E. The radar maintenance on these systems is performed by 51 members, representing 5 percent of the total survey sample.

The second job within the cluster is comprised of 27 ATC Radar Technicians. These members are mostly E-4s and E-5s holding a 5-skill level. Members in this group average 347 tasks, the majority of which involve maintaining receiver or processor systems, performing general maintenance activities, maintaining antenna and waveguide systems, and maintaining radar transmitter systems. The radar systems involved include airport surveillance radars (GPN-12 and GPN-20), NEXRAD WSR-88D, precision approach radars (FPN-62 and GPN-22), and radar approach controls (GSN-12).

The third job within the cluster is comprised of 72 Mobile ATC Radar Technicians. The responsibilities of these respondents differ from those in the ATC Radar Technician Job. While they perform many of the same general tasks, their distinguishing feature is the performance of tasks associated with mobility activities, accounting for 12 percent of their relative job time. These members are mostly E-5s holding the 7-skill level. They perform an average of 283 tasks, the majority of which are maintaining radar transmitter systems, performing general maintenance activities, and maintaining antenna and waveguide systems. They maintain some of the same radar systems as the ATC Radar Technician, but they are heavily involved in the maintenance of the TPN.

The final job within the cluster is comprised of seven ATR Technicians. These members are mostly E-4s holding the 5-skill level. They perform an average of 233 tasks, the majority of which are centered around performing general maintenance activities, maintaining radar transmitter systems, maintaining antenna and waveguide systems, and performing general supply and equipment activities. Some of the radar systems they maintain include the MST-T1A, T-1V Mini-Mutes, AIC-25, Modular Threat Emitters, GRC-171, LMU-24, and Tactical Radar Threat Generators.

II. MAINTENANCE CONTROL JOB (ST131). The 40 airman forming this job account for 4 percent of the survey sample. They perform a number of tasks dealing specifically with general supply and equipment activities. Members in this job spend 50 percent of their duty

time performing general supply and equipment activities (Table 3, Duty Q) and 19 percent performing management and supervisory duties. They perform an average of 53 tasks and are distinguished by the time they spend performing the following tasks:

maintain equipment status reports
issue job control numbers
input core automated maintenance system (CAMS) data on computer terminals
review CAMS output data
report communications outages
maintain support equipment daily status records
maintain master equipment identification listings
maintain documentation on items requiring periodic inspection
review status of awaiting parts (AWP) equipment
coordinate maintenance of equipment with appropriate agencies
maintain TCTOs, TCTO status reports, or TCTO history listings
prepare monthly maintenance reports

Sixty-three percent of these individuals hold the 5-skill level while 33 percent have a 7-skill level. Sixty-three percent are in paygrade E-4 and E-5, with an additional 38 percent in paygrades E-6 and E-7. The average time in the career field is 9 years with an average of 11 years total time in service.

III. MAINTENANCE SUPPORT EVALUATOR JOB (ST128). The 32 members of this job evaluate justification and practicality of recommended improvements to equipment performance and maintenance procedures. They are also responsible for interpreting inspection findings and determining adequacy of corrective actions. Accounting for only 3 percent of the survey sample, they perform an average of 66 tasks, with the majority of their time spent performing tasks under Duty S (Performing Management and Supervisory Activities), Duty U (Performing General Administrative and Technical Order System Activities), Duty P (Performing Quality Assurance Evaluator or Maintenance Support Activities), and Duty Q (Performing General Supply and Equipment Activities). They are distinguished by the time they spend performing the following tasks:

write inspection reports
perform technical inspections
perform surveillance of equipment condition, such as technical order (TO) completeness or corrosion control
perform surveillance of maintenance management functions
evaluate inspection report findings or inspection procedures

perform surveillance of site support functions, such as TMDE, technical data, or supply functions
evaluate maintenance standardization/evaluation programs (MSEPs)
maintain TO libraries
conduct staff assistance visits, inspections, or audits
evaluate effectiveness of training programs, plans, or procedures
maintain ATOMS accounts

Averaging 14 years TAFMS, 63 percent hold the 7 skill-level and 34 percent the 5-skill level. The predominant paygrade for these individuals is E-7 (40 percent).

IV. ENGINEERING AND INSTALLATION JOB (ST039). The 27 respondents in this job account for 2 percent of the survey sample. They perform a number of tasks dealing specifically with radar system engineering, installation, or removal. Members within this job spend 40 percent of their duty time performing radar systems engineering, installation, and removal activities (Table 3, Duty O), and 17 percent of their time performing general maintenance activities (Table 3, Duty A). They perform an average of 86 tasks and are distinguished by the time they spend performing the following tasks:

install or remove equipment cabinets or consoles
install or remove conduits
install or remove external power or signal cabling
pack or unpack support equipment
install or remove interconnecting cables or harnesses
install or remove cable troughs or ducting
install or remove cable support systems
install or remove cable junction boxes
fabricate cables, such as coaxial, power, or triaxial
install or remove ground anchoring equipment
install or remove grounding systems
inventory or inspect project (scheme) materials

Seventy-eight percent of these individuals hold the 5-skill level while 19 percent have a 7-skill level. Thirty-seven percent are in the paygrade E-5, with an additional 33 percent in paygrade E-4. The average time in the career field is 10 years.

V. RADAR EVALUATION JOB (ST271). This job involves the assessment of radar system performance and capabilities and the examination of malfunction trends. The 18 airmen performing this job (only 2 percent of the survey sample) spend 52 percent of their relative job time performing radar evaluation activities (Table 3, Duty N), 6 percent maintaining antenna and

waveguide systems (Table 3, Duty E), 6 percent performing management and supervisory activities (Table 3, Duty S), and 10 percent performing general maintenance activities (Table 3, Duty A). The average number of tasks performed is 52. Examples of tasks most commonly performed includes:

analyze radar performance using computers or specialized hardware
evaluate beacon systems
evaluate fixed radars
construct radar coverage indicators (RCEs)
perform solar boresights
perform azimuth orientation checks
prepare evaluation report products
predict theoretical radar detection capabilities
perform prefield studies
perform lobing studies
performing clutter tests
develop evaluation operating instructions (EOIs)

Seventy-eight percent of these individuals hold the 3-skill level, while 22 percent have a 5-skill level. Sixty-seven percent are in the paygrade E-5, with an additional 17 percent in paygrade E-6. The average time in the career field is 10 years, with an average of 12 years total time in service. This job contains the highest number of members in their first enlistment (22 percent).

VI. CONTRACT EVALUATOR/QUALITY ASSURANCE JOB (ST141). Comprising the most senior individuals in the career ladder, these 16 members account for 1 percent of the survey sample. Forty percent of their relative job time is spent performing management and supervisory activities (Table 3, Duty S), while 29 percent is spent performing quality assurance evaluator or maintenance support activities (Table 3, Duty P). Their primary responsibility is to ensure that proper coordination of work activities with contractor personnel are processed in a timely manner. Tasks which characterize the average 71 tasks performed include:

evaluate contractor proposals
develop, evaluate, or rate contract data requirements list (CDRL) items
coordinate contract issues, such as modification proposals or equipment authorizations, with contract parties
perform surveillance of maintenance management functions
develop contractor surveillance implementation plans
participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting

initiate contractor discrepancy reports
perform surveillance of equipment condition, such as technical order (TO) completeness or corrosion control

Eighty-one percent of these individuals hold the 7-skill level, while 13 percent have a 5-skill level. Sixty-nine percent of these members are in the paygrade E-7, with an additional 19 percent in paygrade E-6. The average time in the career field is 14 years with an average of 18 years total time in service.

VII. TECHNICAL ORDER PERSONNEL JOB (ST104). The 9 respondents in this job account for only 1 percent of the survey sample. They perform a number of tasks dealing specifically with maintaining technical orders. Members with this job spend 41 percent of their time performing general administrative and technical order system activities (Table 3, Duty U), 17 percent performing management and supervisory activities (Table 3, Duty S), and 16 percent of their time performing quality assurance evaluator or maintenance support activities (Table 3, Duty P). They perform an average of 21 tasks and are distinguished by the time they spend performing the following tasks:

maintain ATOMS accounts
maintain TO libraries
perform technical inspections
perform surveillance of equipment conditions, such as technical order (TO) completeness or corrosion control
review TOs
establish automated technical order management system (ATOMS) accounts
evaluate maintenance standardization/evaluation programs (MSEPs)
review TO changes
maintain TCTOs
coordinate requests for TDY orders with appropriate agencies
perform surveillance of site support functions, such as TMDE, technical data, or supply functions

Sixty-seven percent of these individuals hold the 5-skill level, while 33 percent have a 7-skill level. Seventy-eight percent of these members are in the paygrade E-5, with an additional 22 percent in paygrades E-6 and E-7. The average time in the career field is 11 years with an average 10 years total time in service.

VIII. TRAINING CLUSTER (ST068). This cluster, accounting for 3 percent of the total sample, is comprised of instructors, training managers, career development course writers, and instructor supervisors responsible for the theory and hands-on training of the operation and maintenance ATC, AC&W, and automatic tracking radar systems and associated equipment. This training is provided to entry-level personnel and advanced students at Keesler AFB and various other locations throughout the Air Force. Fifty-three percent of their relative job is spent performing training activities, 18 percent performing management and supervisory activities, and 6 percent performing general maintenance activities. Some of the specialized tasks performed by these members are:

conduct formal course classroom training
personalize lesson plans
develop training materials or aids
evaluate progress of trainees
administer or score tests
inspect training materials or aids for operation or suitability
develop formal course curricula, plans of instruction (POIs), or specialty training standards (STSs)
maintain training records or files
write test questions

Fifty-seven percent of these individuals hold the 5-skill level, while 43 percent have a 7-skill level. Fifty-three percent are in paygrade E-4 and E-5, with an additional 47 percent in paygrades E-6 and E-7. The average time in the career field is 13 years with an average of 14 years total time in service.

IX. SUPERVISORY AND MANAGEMENT CLUSTER (ST079). This cluster consists of 122 members, comprising 11 percent of the survey sample. The primary focus of this cluster is on management functions. Fifty-seven percent of their relative job time is spent performing management and supervisory activities (Table 3, Duty S) and 12 percent performing general supply and equipment activities (Table 3, Duty Q). These individuals spend 93 percent of their time supervising personnel while performing an average of 84 tasks. Examples of tasks most commonly performed include:

supervise military personnel
participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting
write performance reports or supervisory appraisals
conduct supervisory performance feedback sessions
write recommendations for awards or decorations
counsel subordinates concerning personal matters

conduct general meetings, such as staff meetings, briefings, conferences, or workshops
determine or establish work assignments or priorities
establish performance standards for subordinates

Members of this job are the second most senior, as they average 17 years total time in service and 14 years time in the career field. Sixty-nine percent of these individuals hold the 7-skill level, while 19 percent old the 5-skill level. Forty percent of these members are in the paygrade of E-7, while 32 percent are in the paygrade of E-6. Ninety-three percent of these individuals report supervising an average of 6 people.

Comparison of Current Jobs to Previous Survey Findings

The results of the specialty job analysis were compared to those of OSR AFPT 90-303-963, Air Traffic Control, AC&W, and ATR, dated August 1995. After reviewing the jobs identified in 1995, all of the groups with substantial numbers of personnel could be matched to similar jobs in the current study (see Table 5). Even though some comparable groups from 1995 to 1998 reflect different percentages of the sample, this variation could generally be attributed to modifications in the task list or to the analysis approach used.

Jobs found in the 1998 survey but not in the 1995 survey include the Maintenance Support Evaluator Job, Engineering and Installation Job, and Technical Order Personnel Job, and the Mobile ATC Radar Technician Job. Aside from these minor variations involving a very small number of personnel, the vast majority of the current sample were found to be performing jobs identified in 1995, thus displaying a relative stable career ladder over time.

ANALYSIS OF DAFSC GROUPS

An analysis of DAFSC groups, in conjunction with the analysis of the career ladder structure, is an important part of each occupational survey. The DAFSC analysis identifies differences in tasks performed at the various skill levels. This information may then be used to evaluate how well career ladder documents, such as the AFMAN 36-2108 *Airman Classification* and the STS, reflect what career ladder personnel are actually doing in the field.

The distribution of skill-level groups across the career ladder jobs is displayed in Table 6. Table 7 offers another perspective by displaying the average percent time spent on each duty across the skill-level groups for the Total Sample, while Table 8 displays this same information for Active Duty personnel. Table 9 displays the average percent time spent on each duty for the Air National Guard. Both 3- and 5-skill level groups perform mostly technical and general maintenance-related duties, with 5-skill level personnel also performing some supervisory and

training duties. Seven-skill level members report a larger amount of their job time is spent on supervisory and training duties (see Table 7, Duties S and T). Members at the 9-skill level are performing more management and supervisory activities, with less emphasis on the technical tasks performed by the 3- and 5-skill levels. This indicates a career ladder with a high level of technical task performance for all personnel up to and including 7-skill level personnel, while personnel at the 9-skill levels are performing management and supervisory activities.

Skill-Level Descriptions

DAFSC 2E031. The 156 airmen at the 3-skill level (representing 15 percent of the survey sample) perform an average of 141 tasks. These personnel are primarily active duty, are in their first enlistment, and perform a variety of technical tasks. Fifty-six percent of the 3-skill level personnel are grouped into the Radar Systems Maintenance Cluster (See Table 6). The 43 percent of 3-skill level personnel not grouped is relatively high. These personnel are not grouped because of the wide variety of tasks they are performing. While most of the 3-skill level personnel are performing very similar tasks as the Radar Systems Maintenance Cluster, they are also performing a wide range of general maintenance tasks. Table 8 shows the average percent time spent performing duties by Active Duty personnel. As shown in Table 8, 22 percent of the respondents' time is spent performing general maintenance activities. Their job focus is shown in Table 10, which lists representative tasks performed by 3-skill level incumbents. Most tasks listed relate to Duty A, performing general maintenance activities.

ACTIVE DUTY DAFSC 2E051. There are 488 Active Duty personnel in the 5-skill level, representing 46 percent of the total sample and 54 percent of the Active Duty sample. Personnel are doing more tasks as they get more proficient in the tasks they learn at the 3-skill level. As with 3-skill level personnel, the largest percentages of Active Duty 5-skill level incumbents work in the Radar Systems Maintenance Cluster. Additionally, a small percentage of personnel are also found in every job except the Contract Evaluator/QAE Job (See Table 6). As displayed in Table 8, 13 percent of the Active Duty respondents' time was spent performing general maintenance activities, while 12 percent was spent performing general supply and equipment activities, and 10 percent of their time was spent performing management and supervisory activities. Table 12 shows the representative tasks performed by Active Duty 5-skill level personnel. This table shows that the 5-skill level members are performing a wide variety of tasks, which is expected at this level. Personnel at this level are performing mostly technical tasks such as performing PMIs, and working on antennas and transmitters. Personnel at the 5-skill level are also performing a limited amount of supervisory and management tasks. Table 14 shows the tasks which best differentiate the 3- and 5-skill level Active Duty personnel. As expected, the 5-skill level personnel are spending much more time than the 3-skill level on supervisory, management, and training tasks.

AIR NATIONAL GUARD DAFSC 2E051. The 77 Air National Guard airmen in the 5-skill level (7 percent of the total survey sample, and 48 percent of the Air National Guard survey sample) perform an average of 134 tasks. The largest percentage of Air National Guard 5-skill level incumbents (44 percent) work in the Radar Systems Maintenance Cluster. Table 6 also indicates a higher percentage of Air National Guard personnel at the 5-skill level are in the Engineering and Installation Job (16 percent). This is the highest percentage of any skill level group (both Active Duty and Air National Guard) for the Engineering and Installation Job. As shown in Table 9, 20 percent of the respondents' time is spent performing general maintenance activities, while 12 percent of their time is spent performing mobility and contingency activities. Table 15 indicates that the Air National Guard 5-skill level members are performing a wide variety of tasks. These tasks are primarily concerned with performing general maintenance activities, and performing mobility and contingency activities. Air National Guard personnel at the 5-skill level are performing very few supervisory and management tasks.

ACTIVE DUTY DAFSC 2E071. The 243 Active Duty NCOs in the 7-skill level (23 percent of the total survey sample and 27 percent of the Active Duty survey sample) perform an average of 144 tasks. Table 6 shows that 29 percent of the Active Duty 7-skill level personnel are in the Radar Systems Maintenance Cluster, which is much lower than the Active Duty personnel at the 5-skill level. Thirty-four percent of 7-skill level personnel are in the Supervisory and Management Cluster. Table 8 shows Active Duty personnel are spending 35 percent of their job time performing management and supervisory activities. By the time the Active Duty personnel reach this skill level, they are spending very little time performing general maintenance activities (Table 8, Duty A). Table 17 lists the most common tasks performed by the Active Duty 7-skill level personnel. Table 17 indicates that personnel are performing mostly supervisory tasks at this skill level and very few technically oriented tasks. Table 19 shows those tasks which best differentiate the 5- and 7-skill levels. As expected, key differences at the 7-skill level are greater emphasis on supervision and administration, with less emphasis on technical tasks.

AIR NATIONAL GUARD DAFSC 2E071. There were 67 Air National Guard NCOs in the 7-skill level, which represents 6 percent of the total sample, and 41 percent of the Air National Guard sample. These personnel perform an average of 162 tasks. Forty-eight percent of Air National Guard 7-skill level personnel are grouped in the Radar Systems Maintenance Cluster (see Table 6), while 15 percent of the Air National Guard 7-skill level sample were grouped into the Maintenance Control Cluster. Additionally, only 2 percent of the Air National Guard 7-skill level sample were in the Supervisory and Management Cluster. Table 9 outlines the duties performed by the Air National Guard 7-skill level sample. Table 20 list the most common tasks performed by Air National Guard 7-skill level personnel. Personnel at the 7-skill level are still performing mostly technical tasks, with very few supervisory or training tasks indicated. Table 21 show those tasks which best differentiate the 5- and 7-skill levels for the Air National Guard.

ACTIVE DUTY DAFSC 2E091. The 15 NCOs in the 9-skill level (1 percent of the total survey sample, and 2 percent of the Active Duty survey sample) perform an average of 120 tasks. This low number of tasks is expected as personnel take on more of the management and supervisory duties. Their job focus shifts from the technical tasks performed by the 3- and 5-skill level personnel to management tasks. Table 6 shows that 73 percent of the Active Duty 9-skill level personnel are in the Supervisory and Management Cluster. There are not any Active Duty 9-skill level personnel in the Radar Systems Maintenance Cluster. Table 8 shows that the Active Duty respondents spend 69 percent of their time performing management and supervisory activities, and very little or no time performing most of the other technical duties performed by the lower skill levels. Table 23 lists the most common tasks performed by Active Duty 9-skill level personnel. This table indicates almost exclusive supervisory tasks are being performed by personnel at the 9-skill level. Table 25 shows those tasks which best differentiate the 7- and 9-skill levels for the Active Duty personnel. The most significant difference between the two skill levels is the increased emphasis on management tasks at the 9-skill level.

AIR NATIONAL GUARD DAFSC 2E091. The 17 Air National Guard NCOs at the 9-skill level represent 2 percent of the total survey sample and 11 percent of the Air National Guard respondents. These personnel perform an average of 179 tasks. Personnel at this level usually are performing less tasks as they take on supervisory-related tasks; however, the Air National Guard personnel are performing very few supervisory tasks and still are performing many technically oriented tasks. Table 6 shows that 41 percent of the Air National Guard personnel are in the Radar Systems Maintenance Cluster, while only 24 percent are in the Supervisory and Management Cluster. Table 9 outlines the duties performed by the Air National Guard. Twenty-five percent of their time is spent performing management and supervisory activities, while an additional 18 percent of their time is spent performing mobility and contingency activities. Table 26 lists the most common tasks performed by the 9-skill level for the Air National Guard personnel. Most tasks are either supervisory in nature, or mobility and contingency related tasks. Table 27 shows those tasks which best differentiate the 7- and 9-skill levels. The most significant difference between the two skill levels is the emphasis on supervisory and management, and mobility and contingency tasks for the 9-skill level.

Active Duty versus Air National Guard Comparison

Table 28 indicates the tasks which best differentiate the Active Duty total sample from the Air National Guard total sample. This table indicates a much higher emphasis on mobility and contingency related tasks for the Air National Guard than for the Active Duty personnel.

According to Table 6, a higher percentage of Air National Guard personnel at the 5-skill level are in the Engineering and Installation Job than their Active Duty counterparts (16 percent vs. 2 percent). Similarly, Table 6 indicates the Air National Guard 5-skill level personnel are not in several of the jobs occupied by Active Duty 5-skill level personnel, such as the Supervisory and Management Cluster, the Maintenance Support Evaluator Job, the Radar Evaluation Job, and the Contract Evaluator/QAE Job. Table 29 indicates the tasks which best differentiate between the

Active Duty and Air National Guard 5-skill levels. The biggest difference is the emphasis on mobility and contingency related tasks being performed by the Air National Guard personnel. Conversely, Active Duty personnel are performing more management and supervisory tasks at this skill level than the Air National Guard personnel.

Table 30 shows the tasks which best differentiate the Active Duty 7-skill level personnel from the Air National Guard 7-skill level personnel. As expected, the Active Duty personnel are spending much more time on supervisory and management tasks than the Air National Guard personnel. Similar to the 5-skill level, the Air National Guard personnel are spending more time on mobility and Contingency tasks than the Active Duty personnel. As Table 6 indicates, 34 percent of Active Duty personnel were in the Supervisory and Management Cluster, with only 2 percent of the Air National Guard in the Supervisory and Management Cluster. Since the Air National Guard members spend very little time performing supervisory duties, this is the most significant area of difference between the two components at this skill level. Additionally, there were a higher percentage of Air National Guard respondents in the Maintenance Control Job and the Radar Systems Maintenance Job than there are Active Duty personnel in either of those two jobs.

The tasks which best differentiate the Active Duty and Air National Guard personnel at the 9-skill level are listed in Table 31. The most significant difference, like the 5- and 7-skill levels, is the emphasis on contingency and mobility related tasks performed by the Air National Guard personnel. Table 6 shows 41 percent of Air National Guard 9-skill level personnel are in the Radar Systems Maintenance Cluster, while there are not any Active Duty 9-skill level personnel in that cluster. Conversely, 73 percent of the Active Duty personnel at this skill level are in the Supervisory and Management Cluster, with only 24 percent of the Air National Guard personnel in this cluster. This indicates that even at the 9-skill level, personnel in the Air National Guard are not taking on as many supervisory and management tasks as their Active Duty counterparts, but are instead still concerned mostly with radar systems maintenance.

Table 7 shows the average percent of time spent performing duties by the total sample (Active Duty and Air National Guard combined). Table 11 shows the representative tasks performed by the total 5-skill level respondents, while Table 13 shows those tasks which best differentiate the 3- and 5-skill levels for the total sample. Table 16 indicates the representative tasks performed by the total 7-skill level sample. Additionally, Table 18 indicates the tasks which best differentiate the total 5- and 7-skill level groups. Similarly, Table 22 shows the representative tasks performed by the total 9-skill level survey respondents, while Table 24 displays the tasks which best differentiate the total 7- and 9-skill levels.

Summary

Career ladder progress for personnel in the Ground Radar career ladder follows a normal pattern of technical job focus at the 3- and 5-skill levels. Personnel slowly progress into supervisory duties at the 5-skill level but are still performing mostly technical tasks, while at the 7-skill level they are primarily concerned with supervising personnel. At the 9-skill level, personnel

are almost exclusively involved in supervisory and management-related tasks. On the other hand, Air National Guard personnel tend to perform a larger number of technical tasks at the upper skill levels, possibly due to the limited number of personnel in these components. Across both the Active Duty and the Air National Guard, emphasis at the 3-skill level is on performing general maintenance activities. At the 5-skill level, members are still primarily concerned with performing general maintenance activities with a small increase in the supervisory duties within the active duty. At the 7-skill level, personnel still perform a limited number of technically oriented tasks, but focus primarily on supervisory and management duties. Personnel in the 9-skill level are working on management and supervisory related tasks almost exclusively.

TRAINING ANALYSIS

Occupational survey data represent one of many sources of information which are used to assist in the development of training programs for career ladder personnel. OSR data useful to training personnel include job descriptions for the various jobs performed within a career ladder, distribution of personnel across career ladder jobs, percentages of personnel performing specific tasks, and percentages of personnel maintaining specific equipment or systems, as well as the difficulty of tasks and TE ratings gathered from senior members of the career ladder.

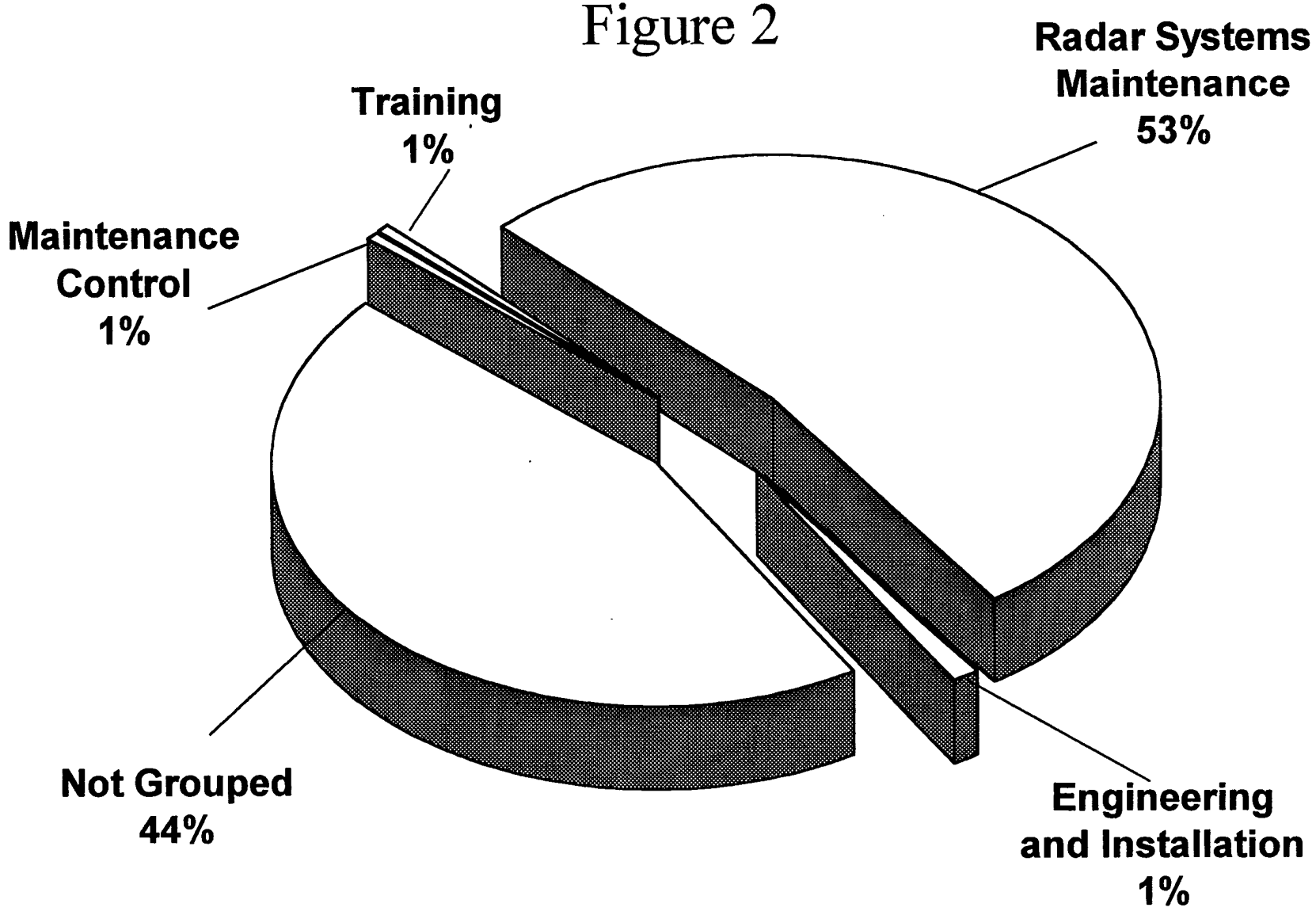
First-Enlistment Analysis

In this study, there are 184 active duty Ground Radar members in their first enlistment (1-48 months TAFMS), representing 20 percent of the survey sample. As displayed in Table 28, 22 percent of their time is spent performing general maintenance activities. Additionally, 13 percent of their time is spent maintaining radar transmitter systems, and 10 percent of their time is spent maintaining antenna and waveguide systems. Figure 2 shows that 53 percent of first-enlistment personnel are working in the Radar Systems Maintenance Cluster. Additionally, 1 percent of first-enlistment personnel are in the Training Cluster, and 1 percent are in both the Maintenance Control and Engineering and Installation jobs. There were 44 percent of first-enlistment personnel that were not grouped into any of the jobs or clusters identified. This large percentage is because of the large variety of tasks that they are performing. There were no first-enlistment personnel in the Supervisory and Management Cluster, in the Maintenance Support Evaluator, the Radar Evaluation, the Technical Order Personnel, or the Contract Evaluator/QAE jobs. This is not surprising since personnel at the higher skill levels traditionally perform these jobs.

Table 29 displays the most commonly performed tasks for active duty first-enlistment personnel. The majority of tasks displayed involve performing very technical, hands-on tasks.

First-Enlistment Personnel Jobs

Figure 2



Training Emphasis (TE) and Task Difficulty (TD) Data

TE and TD data are secondary factors that can help technical school personnel decide which entry-level training tasks to emphasize. These ratings, based on the judgments of senior career ladder NCOs at operational units, provide training personnel with a rank ordering of those tasks considered important for first-enlistment airman training (TE), and a measure of the difficulty of those tasks (TD). When combined with data on the percentages of first-enlistment personnel performing tasks, comparisons can be made to determine if training adjustments are necessary. For example, tasks receiving high ratings on both task factors (TE and TD) accompanied by moderate to high percentages performing may warrant resident training. Those tasks receiving high task factor ratings, but low percentages performing may be more appropriately planned for OJT programs within the career ladder. Low task factor ratings may highlight tasks best omitted from training for first-enlistment personnel. This decision must be weighed against percentages of personnel performing the tasks, command concerns, and criticality of the tasks.

Table 30 lists the tasks having the highest TE ratings, as well as the percentages of first-job, first-enlistment, and TD ratings for each task. The majority of high TE tasks are performed by high percentages of both groups. Most tasks with a high TE involve working with transmitters or performing PMIs.

Table 31 lists the tasks having the highest TD rating, with the percentages of first-job, first-enlistment, 3-, 5-, 7-skill level personnel performing, and TE ratings included for each task. The majority of tasks with high difficulty involve isolating malfunctions and evaluating various components. Most of the tasks with high difficulty were performed by a fairly low percentage of members. Various lists of tasks, accompanied by TD rating, are contained in the Training Extract package and should be reviewed in detail by technical school personnel. For a more detailed explanation of TD and TE ratings, see the Task Factor Administration in the **SURVEY METHODOLOGY** section of this report.

Specialty Training Standard (STS)

A comprehensive review of the STS was made by comparing survey data to STS elements. SMEs matched JI tasks to appropriate STS sections and subsections. A complete computer listing displaying the percent members performing tasks, TE and TD ratings for each task, along with the STS matching, has been forwarded to the school for further review of training documents.

Typically, tasks which have sufficiently high TE and TD ratings, and are performed by at least 20 percent of personnel in appropriate experience or skill-level groups (such as first-enlistment or 1-48 months TAFMS, and 5- and 7-skill level groups), should be considered for inclusion in the STS. Likewise, tasks with less than 20 percent performing in all of these groups should be considered for deletion from the STS. Three line items from the STS were not supported by 20 percent of personnel. Examples of these items are in Table 32, along with the accompanying JI task and survey data. Removing and replacing line replaceable units (LRU), and

using diagnostic programs to isolate malfunction to LRUs were the areas that were not supported by 20 percent of personnel. Training personnel and SMEs should review these areas to determine if inclusion in future revisions to the STS is warranted.

Tasks not matched to any element of the STS are listed at the end of the STS computer listing. These were reviewed to determine if there were any tasks concentrated around any particular functions or jobs. Most of the tasks that were not matched were from the Performing General Maintenance activities duty section.

Examples of technical tasks performed by at least 20 percent of STS target group respondents, but which are not referenced to any STS element, are displayed in Table 33. Training personnel and SMEs should review these and other unreferenced tasks to determine STS inclusion.

JOB SATISFACTION ANALYSIS

An examination of the job satisfaction indicators of various groups can give career ladder managers a better understanding of some of the factors which may affect the job performance of airmen in the career ladder. Questions covering job interest, perceived utilization of talents and training, sense of accomplishment from work, and reenlistment intentions were included in the survey booklet to provide indications of job satisfaction.

The Ground Radar survey booklet included questions covering job interest, perceived utilization of talents and training, sense of accomplishment from work, and reenlistment intentions. The responses of the current survey sample were then analyzed by making the following comparisons: (1) among TAFMS groups of the Ground Radar career ladder and a comparative sample of personnel from other Mission Equipment Management career ladders surveyed in 1997; (2) between current and previous survey experience groups; and (3) across specialty groups identified in the **SPECIALTY JOBS** section of the report.

Table 34 compares first-enlistment (1-48 months TAFMS), second-enlistment (49-96 months TAFMS), and career (97+ months TAFMS) group data to corresponding enlistment groups from other Mission Equipment Management AFSCs surveyed during the previous calendar year. These data give a relative measure of how the job satisfaction of AFSC 2E0X1 personnel compares with similar Air Force specialties. All three groups report comparable job satisfaction for all indicators except reenlistment intentions. The "NO OR PROBABLY NO" reenlistment intention indicators for all three groups were somewhat higher than other Mission Equipment Management AFSCs.

Table 35 compares job satisfaction indicator responses of the TAFMS groups in the current survey to TAFMS groups for the previous survey. Generally, the current responses are lower in every job satisfaction indicator when compared to the 1995 responses.

An examination of job satisfaction data can also reveal the influences performing certain jobs may have on overall job satisfaction. Table 36 presents job satisfaction data for the jobs identified in the career ladder structure for AFSC 2E0X1. Overall, job satisfaction was fairly high across specialty jobs, with a decrease in job satisfaction for both the Maintenance Control Job and the Maintenance Support Evaluator Job. Job satisfaction was highest for the Radar Evaluation Job.

When there are issues in an occupation that are not directly addressed in the JI, survey respondents frequently provide write-in comments. The majority of write-in comments dealt with explaining the type of job held, base to which assigned (particularly ANG bases), or expanded upon the specific type of equipment used. Very few comments addressed anything other than the above mentioned topics.

IMPLICATIONS

This survey was initiated to provide current job and task data for use in evaluating the AFMAN 36-2108 *Airman Classification* and training documents.

In terms of tasks performed and relative time spent on duties, the Ground Radar Systems career ladder structure has changed very little since the previous OSR published in 1995. DAFSC 2E031 members are performing a wide range of general maintenance tasks; therefore, a large number of these members are not grouped into a specific specialty job. As members advance to the 5-skill level they are still almost purely technical workers. Members advancing to the 7-skill level are still performing tasks very technical in nature, but they are becoming more managerial. As members advance to the 9-skill level they devote their time to management and training activities. Survey data show the AFMAN 36-2108 *Airman Classification* accurately reflects the jobs and tasks currently being performed in the career ladder.

Analysis of the AFSC 2E0X1 STS reflects support for most areas, although two line items were identified as unsupported: remove and replace an LRU and use diagnostic programs to isolate malfunction to LRU. The STS document should be thoroughly examined to determine if areas should be retained or deleted in the next Career Field Education and Training Plan (CFETP). The tasks with high percentages of members performing should be examined for inclusion into the CFETP documents.

Overall, job satisfaction was fairly high across TAFMS groups, and specialty jobs with a decrease in job satisfaction for both the Maintenance Control and Maintenance Support Evaluator jobs. Job satisfaction was highest for the Radar Evaluation Job.

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APPENDIX A

TABLES 1-40

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TABLE 1

MAJCOM REPRESENTATION OF ACTIVE DUTY AFSC 2E0X1 SAMPLE

MAJOR COMMAND	PERCENT OF ASSIGNED*	PERCENT OF SAMPLE
ACC	57	57
AETC	13	14
AFMC	6	5
AFSPC	2	2
AMC	3	4
PACAF	8	8
USAFE	9	8
OTHER**	2	2

	AFSC 2E0X1 ACTIVE DUTY	AFSC 2E0X1 ANG
TOTAL ASSIGNED	1,334	499
TOTAL ELIGIBLE	1,200	475
TOTAL IN SAMPLE	902	162
PERCENT OF ASSIGNED IN SAMPLE	68%	32%
PERCENT OF ELIGIBLE IN SAMPLE	75%	34%

* Assigned strength as of September 1997

** Other includes: AFFSA, AFOTE, AIA, AWS, CMA, ELM, and EUR

TABLE 2

PAYGRADE DISTRIBUTION OF SURVEY SAMPLE FOR AFSC 2E0X1

	PERCENT OF ACTIVE DUTY		PERCENT OF ANG	
PAYGRADE	ASSIGNED	SAMPLE	ASSIGNED	SAMPLE
E-1 to E-3	10	11	4	2
E-4	31	30	17	14
E-5	30	31	30	27
E-6	15	16	23	24
E-7	12	10	19	25
E-8	2	2	7	7
E-9	-	-	-	-

* Assigned strength as of September 1997

NOTE: Columns may not add to 100 percent due to rounding

TABLE 3

RELATIVE PERCENT TIME SPENT PERFORMING DUTIES BY SPECIALTY JOBS FOR AFSC 2E0X1

	DUTIES	RADAR SYSTEMS MAINTENANCE (STG096) (N=507)	MAINTENANCE CONTROL (STG131) (N=40)	MAINTENANCE SUPPORT EVALUATOR (STG128) (N=32)	ENGINEERING AND INSTALLATION (STG039) (N=27)	RADAR EVALUATION (STG271) (N=18)
A	PERFORMING GENERAL MAINTENANCE ACTIVITIES	15	1	4	17	10
B	MAINTAINING POWER AND DISTRIBUTION EQUIPMENT	3	*	*	1	1
C	MAINTAINING TIMING SYSTEMS	2	*	*	*	1
D	MAINTAINING RADAR TRANSMITTER SYSTEMS	12	*	*	1	4
E	MAINTAINING ANTENNA AND WAVEGUIDE SYSTEMS	10	*	*	3	6
F	MAINTAINING RECEIVER OR PROCESSOR SYSTEMS	11	-	*	*	3
G	MAINTAINING REMOTING EQUIPMENT	3	*	*	2	*
H	MAINTAINING DISPLAY, BRIGHT RADAR INDICATING TOWER (BRITE), AND DIGITAL BRITE (DBRITE) EQUIPMENT	4	-	*	3	*
I	MAINTAINING ANCILLARY EQUIPMENT	3	*	*	3	*
J	MAINTAINING IDENTIFICATION FRIEND OR FOE (IFF) AND SELECTIVE IDENTIFICATION FEATURE (SIF) EQUIPMENT	6	-	*	1	5
K	MAINTAINING RANGE AND ANGLE TRACKING SYSTEMS	*	-	-	*	-
L	MAINTAINING COMPUTER SYSTEMS	2	1	*	2	3
M	PERFORMING OPERATIONS ACTIVITIES	1	1	*	*	*
N	PERFORMING RADAR EVALUATION ACTIVITIES	*	*	2	-	52
O	PERFORMING RADAR SYSTEM ENGINEERING, INSTALLATION, AND REMOVAL ACTIVITIES	2	*	*	40	-
P	PERFORMING QUALITY ASSURANCE EVALUATOR OR MAINTENANCE SUPPORT ACTIVITIES	1	1	13	1	*
Q	PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	9	50	13	5	1
R	PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	5	6	6	6	-
S	PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	6	19	36	7	6
T	PERFORMING TRAINING ACTIVITIES	3	8	10	4	4
U	PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER SYSTEM ACTIVITIES	2	12	15	4	3

* Denotes less than 1 percent

TABLE 3 (CONTINUED)

RELATIVE PERCENT TIME SPENT PERFORMING DUTIES BY SPECIALTY JOBS FOR AFSC 2E0X1

DUTIES		CONTRACT EVALUATOR/ QAE (STG141) (N=16)	TECHNICAL ORDER PERSONNEL (STG104) (N=9)	TRAINING (STG068) (N=30)	SUPERVISORY AND MANAGEMENT (STG79) (N=122)
A	PERFORMING GENERAL MAINTENANCE ACTIVITIES	4	1	6	3
B	MAINTAINING POWER AND DISTRIBUTION EQUIPMENT	1	-	*	*
C	MAINTAINING TIMING SYSTEMS	*	-	*	*
D	MAINTAINING RADAR TRANSMITTER SYSTEMS	1	-	2	1
E	MAINTAINING ANTENNA AND WAVEGUIDE SYSTEMS	1	-	*	1
F	MAINTAINING RECEIVER OR PROCESSOR SYSTEMS	*	*	1	1
G	MAINTAINING REMOTING EQUIPMENT	*	-	1	*
H	MAINTAINING DISPLAY, BRIGHT RADAR INDICATING TOWER (BRITE), AND DIGITAL BRITE (DBRITE) EQUIPMENT	*	-	*	*
I	MAINTAINING ANCILLARY EQUIPMENT	*	-	-	*
J	MAINTAINING IDENTIFICATION FRIEND OR FOE (IFF) AND SELECTIVE IDENTIFICATION FEATURE (SIF) EQUIPMENT	*	*	2	*
K	MAINTAINING RANGE AND ANGLE TRACKING SYSTEMS	*	-	-	*
L	MAINTAINING COMPUTER SYSTEMS	1	-	2	1
M	PERFORMING OPERATIONS ACTIVITIES	1	-	*	1
N	PERFORMING RADAR EVALUATION ACTIVITIES	4	-	-	*
O	PERFORMING RADAR SYSTEM ENGINEERING, INSTALLATION, AND REMOVAL ACTIVITIES	1	*	*	*
P	PERFORMING QUALITY ASSURANCE EVALUATOR OR MAINTENANCE SUPPORT ACTIVITIES	29	16	1	1
Q	PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	7	9	4	12
R	PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	*	3	1	5
S	PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	40	17	18	57
T	PERFORMING TRAINING ACTIVITIES	3	12	53	9
U	PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER SYSTEM ACTIVITIES	7	41	8	7

* Denotes less than 1 percent

TABLE 4

SELECTED BACKGROUND DATA FOR SPECIALTY JOBS FOR AFSC 2E0X1

	RADAR SYSTEMS MAINTENANCE (STG096)	MAINTENANCE CONTROL (STG131)	MAINTENANCE SUPPORT EVALUATOR (STG128)	ENGINEERING AND INSTALLATION (STG039)	RADAR EVALUATION (STG271)
NUMBER IN GROUP	507	40	32	27	18
PERCENT OF SAMPLE	48%	4%	3%	2%	2%
PERCENT IN CONUS	81%	90%	88%	93%	100%
DAFSC DISTRIBUTION:					
2E031	17%	3%	0%	0%	78%
2E051	61%	63%	34%	78%	22%
2E071	20%	33%	63%	19%	0%
2E091	1%	3%	3%	4%	0%
COMPONENT STATUS					
ACTIVE DUTY	86%	70%	88%	37%	100%
AIR NATIONAL GUARD	14%	30%	12%	63%	0%
PAYGRADE DISTRIBUTION					
E-1 to E-3	9%	0%	0%	0%	0%
E-4	36%	30%	3%	33%	11%
E-5	36%	33%	41%	37%	67%
E-6	13%	15%	41%	19%	17%
E-7	6%	23%	16%	7%	6%
E-8	1%	0%	0%	4%	0%
E-9	0%	0%	0%	0%	0%
PERCENT SUPERVISING	46%	42%	59%	37%	28%
AVERAGE NUMBER OF TASKS PERFORMED	257	53	66	86	52

* Denotes less than 1 percent

TABLE 4 (CONTINUED)

SELECTED BACKGROUND DATA FOR SPECIALTY JOBS FOR AFSC 2E0X1

	CONTRACT EVALUATOR/QAE (STG141)	TECHNICAL ORDER PERSONNEL (STG104)	TRAINING (STG068)	SUPERVISORY AND MANAGEMENT (STG079)
NUMBER IN GROUP	16	9	30	122
PERCENT OF SAMPLE	1%	1%	3%	11%
PERCENT IN CONUS	56%	67%	93%	80%
DAFSC DISTRIBUTION:				
2E031	0%	0%	0%	0%
2E051	13%	67%	57%	19%
2E071	81%	33%	43%	69%
2E091	6%	0%	0%	12%
COMPONENT STATUS				
ACTIVE DUTY	100%	78%	93%	96%
AIR NATIONAL GUARD	0%	22%	7%	4%
PAYGRADE DISTRIBUTION				
E-1 to E-3	0%	0%	0%	0%
E-4	0%	0%	10%	1%
E-5	0%	78%	43%	14%
E-6	19%	11%	37%	32%
E-7	69%	11%	10%	40%
E-8	13%	0%	0%	12%
E-9	0%	0%	0%	1%
PERCENT SUPERVISING	44%	0%	23%	93%
AVERAGE NUMBER OF TASKS PERFORMED	71	21	38	84

* Denotes less than 1 percent

TABLE 5

SPECIALTY JOB COMPARISON BETWEEN CURRENT AND 1995 SURVEY

CURRENT SURVEY (N=1,064)	1995 SURVEY (N= 1,791)
-Radar Systems Maintenance Cluster	
-AC&W Radar Technician	AC&W Radar Maintenance Cluster
-ATC Radar Technician	ATC Radar Maintenance Cluster
-Mobile ATC Radar Technician	Not Identified
-ATR Technician	ATR Maintenance and Operations Cluster
-Maintenance Control Job	Maintenance Control/Production Operations Job
-Maintenance Support Evaluator Job	Not Identified
-Engineering and Installation Job	Not Identified
-Radar Evaluation Job	Radar Analysis and Evaluator Job
-Contract Evaluator/Quality Assurance Job	Contract Evaluation and Quality Assurance Job
-Technical Order Personnel Job	Not Identified
-Training Cluster	Training Cluster
-Training Manager	-Training Manager
-Instructor	-Instructor Job
-Training NCO	
-CDC Writer	-CDC Writer
-Supervisory and Management Cluster	Supervisory, Managerial, and Administrative Cluster
-Chiefs	
-Superintendents	
-NCOICs	

TABLE 6

DISTRIBUTION OF AFSC 2E0X1 MEMBERS ACROSS SPECIALTY JOBS
(PERCENT MEMBERS RESPONDING)

SPECIALTY JOBS	ACTIVE 2E031 (N=155)	TOTAL 2E051 (N=565)	ACTIVE 2E051 (N=488)	ANG 2E051 (N=77)	TOTAL 2E071 (N=310)	ACTIVE 2E071 (N=243)	ANG 2E071 (N=67)	TOTAL 2E091 (N=32)	ACTIVE 2E091 (N=15)	ANG 2E091 (N=17)
I. RADAR SYSTEMS MAINTENANCE	56	55	57	44	33	29	48	22	-	41
II. MAINTENANCE CONTROL	1	4	5	1	4	1	15	3	-	6
III. MAINTENANCE SUPPORT EVALUATOR	-	2	2	-	7	7	5	3	-	6
IV. ENGINEERING AND INSTALLATION	-	4	2	16	2	*	6	3	-	6
V RADAR EVALUATION	-	3	3	-	1	2	-	-	-	-
VI. CONTRACT EVALUATOR/QAE	-	*	*	-	4	5	-	3	7	-
VII. TECHNICAL ORDER PERSONNEL	-	1	1	-	1	*	3	-	-	-
VIII. TRAINING	-	3	3	1	4	5	2	-	-	-
IX. SUPERVISORY AND MANAGEMENT	-	4	5	-	27	34	2	47	73	24
X. NOT GROUPED	43	24	22	38	17	17	19	19	20	17

* Denotes less than .5 percent
\- Denotes no members

TABLE 7

AVERAGE PERCENT TIME SPENT PERFORMING DUTIES BY TOTAL DAFSC 2E0X1 GROUPS
(RELATIVE PERCENT OF JOB TIME)

	DUTIES	TOTAL 2E031 (N=156)	TOTAL 2E051 (N=565)	TOTAL 2E071 (N=310)	TOTAL 2E091 (N=32)
A	PERFORMING GENERAL MAINTENANCE ACTIVITIES	22	14	8	5
B	MAINTAINING POWER AND DISTRIBUTION EQUIPMENT	4	2	1	1
C	MAINTAINING TIMING SYSTEMS	2	1	1	*
D	MAINTAINING RADAR TRANSMITTER SYSTEMS	13	8	5	2
E	MAINTAINING ANTENNA AND WAVEGUIDE SYSTEMS	9	7	4	2
F	MAINTAINING RECEIVER OR PROCESSOR SYSTEMS	9	7	4	2
G	MAINTAINING REMOTING EQUIPMENT	3	2	1	*
H	MAINTAINING DISPLAY, BRIGHT RADAR INDICATING TOWER (BRITE), AND DIGITAL BRITE (DBRITE) EQUIPMENT	4	3	2	*
I	MAINTAINING ANCILLARY EQUIPMENT	3	2	1	*
J	MAINTAINING IDENTIFICATION FRIEND OR FOE (IFF) AND SELECTIVE IDENTIFICATION FEATURE (SIF) EQUIPMENT	4	4	3	2
K	MAINTAINING RANGE AND ANGLE TRACKING SYSTEMS	1	*	*	-
L	MAINTAINING COMPUTER SYSTEMS	2	2	1	*
M	PERFORMING OPERATIONS ACTIVITIES	5	3	1	*
N	PERFORMING RADAR EVALUATION ACTIVITIES	*	2	2	1
O	PERFORMING RADAR SYSTEM ENGINEERING, INSTALLATION, AND REMOVAL ACTIVITIES	2	4	1	2
P	PERFORMING QUALITY ASSURANCE EVALUATOR OR MAINTENANCE SUPPORT ACTIVITIES	1	2	4	4
Q	PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	9	11	11	10
R	PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	4	5	6	13
S	PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	2	9	30	46
T	PERFORMING TRAINING ACTIVITIES	1	6	9	5
U	PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER SYSTEM ACTIVITIES	2	6	7	5

* Denotes less than 1 percent

NOTE: Columns may not add up to 100 percent due to rounding

TABLE 8

AVERAGE PERCENT TIME SPENT PERFORMING DUTIES BY ACTIVE DUTY DAFSC 2E0X1 GROUPS
(RELATIVE PERCENT OF JOB TIME)

	DUTIES	ACTIVE 2E031 (N=155)	ACTIVE 2E051 (N=488)	ACTIVE 2E071 (N=243)	ACTIVE 2E091 (N=15)
A	PERFORMING GENERAL MAINTENANCE ACTIVITIES	22	13	6	1
B	MAINTAINING POWER AND DISTRIBUTION EQUIPMENT	4	2	1	-
C	MAINTAINING TIMING SYSTEMS	2	1	1	-
D	MAINTAINING RADAR TRANSMITTER SYSTEMS	13	8	4	-
E	MAINTAINING ANTENNA AND WAVEGUIDE SYSTEMS	9	7	3	*
F	MAINTAINING RECEIVER OR PROCESSOR SYSTEMS	9	6	3	*
G	MAINTAINING REMOTING EQUIPMENT	3	2	1	-
H	MAINTAINING DISPLAY, BRIGHT RADAR INDICATING TOWER (BRITE), AND DIGITAL BRITE (DBRITE) EQUIPMENT	4	3	1	*
I	MAINTAINING ANCILLARY EQUIPMENT	3	2	1	*
J	MAINTAINING IDENTIFICATION FRIEND OR FOE (IFF) AND SELECTIVE IDENTIFICATION FEATURE (SIF) EQUIPMENT	4	4	2	-
K	MAINTAINING RANGE AND ANGLE TRACKING SYSTEMS	1	*	*	-
L	MAINTAINING COMPUTER SYSTEMS	2	2	1	*
M	PERFORMING OPERATIONS ACTIVITIES	5	3	1	*
N	PERFORMING RADAR EVALUATION ACTIVITIES	*	2	2	1
O	PERFORMING RADAR SYSTEM ENGINEERING, INSTALLATION, AND REMOVAL ACTIVITIES	2	3	1	-
P	PERFORMING QUALITY ASSURANCE EVALUATOR OR MAINTENANCE SUPPORT ACTIVITIES	1	2	4	8
Q	PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	8	12	10	5
R	PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	4	4	5	8
S	PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	1	10	35	69
T	PERFORMING TRAINING ACTIVITIES	1	6	10	2
U	PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER SYSTEM ACTIVITIES	2	6	7	4

* Denotes less than 1 percent

NOTE: Columns may not add up to 100 percent due to rounding

TABLE 9

AVERAGE PERCENT TIME SPENT PERFORMING DUTIES BY GUARD DAFSC 2E0X1 GROUPS
(RELATIVE PERCENT OF JOB TIME)

DUTIES		GUARD 2E051 (N=77)	GUARD 2E071 (N=67)	GUARD 2E091 (N=17)
A	PERFORMING GENERAL MAINTENANCE ACTIVITIES	20	14	8
B	MAINTAINING POWER AND DISTRIBUTION EQUIPMENT	2	2	2
C	MAINTAINING TIMING SYSTEMS	1	1	*
D	MAINTAINING RADAR TRANSMITTER SYSTEMS	10	7	4
E	MAINTAINING ANTENNA AND WAVEGUIDE SYSTEMS	7	6	3
F	MAINTAINING RECEIVER OR PROCESSOR SYSTEMS	8	6	3
G	MAINTAINING REMOTING EQUIPMENT	1	1	1
H	MAINTAINING DISPLAY, BRIGHT RADAR INDICATING TOWER (BRITE), AND DIGITAL BRITE (DBRITE) EQUIPMENT	2	2	1
I	MAINTAINING ANCILLARY EQUIPMENT	2	2	*
J	MAINTAINING IDENTIFICATION FRIEND OR FOE (IFF) AND SELECTIVE IDENTIFICATION FEATURE (SIF) EQUIPMENT	5	5	4
K	MAINTAINING RANGE AND ANGLE TRACKING SYSTEMS	*	*	-
L	MAINTAINING COMPUTER SYSTEMS	1	1	*
M	PERFORMING OPERATIONS ACTIVITIES	*	1	*
N	PERFORMING RADAR EVALUATION ACTIVITIES	*	1	*
O	PERFORMING RADAR SYSTEM ENGINEERING, INSTALLATION, AND REMOVAL ACTIVITIES	10	3	3
P	PERFORMING QUALITY ASSURANCE EVALUATOR OR MAINTENANCE SUPPORT ACTIVITIES	*	1	1
Q	PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	6	15	13
R	PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	12	11	18
S	PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	3	9	25
T	PERFORMING TRAINING ACTIVITIES	2	5	7
U	PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER SYSTEM ACTIVITIES	6	7	5

* Denotes less than 1 percent

NOTE: Columns may not add up to 100 percent due to rounding

TABLE 10

REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2E031 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=155)
A32	Perform general soldering	92
D124	Perform PMIs on transmitter systems	88
A31	Perform equipment maintenance using test equipment	86
A8	Clean or replace filters	83
A29	Perform corrosion control on mechanical assemblies, such as antenna towers, equipment racks, or equipment vans	75
D98	Adjust or align transmitter high-voltage power supplies	75
E211	Perform PMIs on antenna systems	74
A46	Read and interpret equipment technical manuals	73
A39	Perform visual inspections of communications-electronics systems	72
A25	Lubricate mechanical bearing surfaces, such as antenna rotary joints or bull gears	70
A51	Remove or replace general electronics hardware, such as sockets, meters, fuse holders, or clamps	69
A28	Perform corrosion control on electrical assemblies, such as electronic component boards	68
A16	Fabricate cables, such as coaxial, power, or triaxial	67
A37	Perform preventive maintenance inspections (PMIs) on built-in test equipment (BITE)	63
F360	Perform PMIs on receiver or processor systems	63
D99	Adjust or align transmitter high-voltage protective or fault circuits	62
A42	Performance check system grounds	59
A6	Change oil supplies, such as dielectric oil	59
A12	Determine locations of shorts or opens in cable runs	58
Q878	Research Federal Logistics (FEDLOG) systems	57
B71	Perform PMIs on power and distribution systems	57
D137	Remove or replace transmitter high-voltage power supplies	57
D129	Remove or replace dummy loads	55
A43	Prepare equipment for test measurement and diagnostic equipment (TMDE) processing	54
B68	Isolate power supply malfunctions	54
Q848	Input core automated maintenance system (CAMS) data on computer terminals	54
Q850	Inventory equipment, tools, parts, or supplies	54
A41	Performance check interlock protective circuits	53
D103	Adjust or align transmitter performance monitor circuits, such as power monitors or voltage standing wave ratio monitors	53
D108	Isolate air circulating system malfunctions, such as fans or blowers	52
A7	Check or replace desiccants	52
A1	Adjust or align analog-to-digital (A-D) or digital-to-analog (D-A) converters	52
B60	Adjust or align power supplies, other than transmitter high-voltage power supplies or power supply and junction (PS&J) boxes	51
C90	Perform PMIs on timing systems	51
B78	Remove or replace power supplies, other than transmitter high-voltage power supplies	51

Average number of tasks performed - 141

TABLE 11

REPRESENTATIVE TASKS PERFORMED BY TOTAL 2E051 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=565)
A32	Perform general soldering	75
A46	Read and interpret equipment technical manuals	69
A31	Perform equipment maintenance using test equipment	69
A8	Clean or replace filters	68
D124	Perform PMIs on transmitter systems	65
A16	Fabricate cables, such as coaxial, power, or triaxial	65
A29	Perform corrosion control on mechanical assemblies, such as antenna towers, equipment racks, or equipment vans	65
A39	Perform visual inspections of communications-electronics systems	63
E211	Perform PMIs on antenna systems	61
D98	Adjust or align transmitter high-voltage power supplies	61
A25	Lubricate mechanical bearing surfaces, such as antenna rotary joints or bull gears	60
A51	Remove or replace general electronics hardware, such as sockets, meters, fuse holders, or clamps	59
Q878	Research Federal Logistics (FEDLOG) systems	59
Q848	Input core automated maintenance system (CAMS) data on computer terminals	58
A28	Perform corrosion control on electrical assemblies, such as electronic component boards	57
A12	Determine locations of shorts or opens in cable runs	57
Q850	Inventory equipment, tools, parts, or supplies	56
A43	Prepare equipment for test measurement and diagnostic equipment (TMDE) processing	56
A42	Performance check system grounds	55
D99	Adjust or align transmitter high-voltage protective or fault circuits	55
A41	Performance check interlock protective circuits	53
F360	Perform PMIs on receiver or processor systems	52
T1034	Conduct OJT	52
A45	Provide technical assistance	50
E168	Adjust or align gas or air waveguide pressurizing/dehydrating systems	50
D137	Remove or replace transmitter high-voltage power supplies	50
A37	Perform preventive maintenance inspections (PMIs) on built-in test equipment (BITE)	50
D114	Isolate transmitter high-voltage protective or fault circuit malfunctions	50
D101	Adjust or align transmitter modulators	49
Q831	Certify status of reparable, serviceable, or condemned parts or equipment	49
A1	Adjust or align analog-to-digital (A-D) or digital-to-analog (D-A) converters	49
A23	Isolate interlock protective circuit malfunctions	49
Q883	Store equipment, tools, parts, or supplies	49
A7	Check or replace desiccants	49
A33	Perform high-reliability soldering	48

Average number of tasks performed - 166

TABLE 12

REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2E051 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=488)
A32	Perform general soldering	74
A8	Clean or replace filters	70
A31	Perform equipment maintenance using test equipment	70
A46	Read and interpret equipment technical manuals	69
D124	Perform PMIs on transmitter systems	66
A16	Fabricate cables, such as coaxial, power, or triaxial	66
A29	Perform corrosion control on mechanical assemblies, such as antenna towers, equipment racks, or equipment vans	65
A39	Perform visual inspections of communications-electronics systems	64
D98	Adjust or align transmitter high-voltage power supplies	62
Q878	Research Federal Logistics (FEDLOG) systems	62
Q848	Input core automated maintenance system (CAMS) data on computer terminals	61
A51	Remove or replace general electronics hardware, such as sockets, meters, fuse holders, or clamps	61
E211	Perform PMIs on antenna systems	60
A25	Lubricate mechanical bearing surfaces, such as antenna rotary joints or bull gears	60
A43	Prepare equipment for test measurement and diagnostic equipment (TMDE) processing	59
Q850	Inventory equipment, tools, parts, or supplies	57
D99	Adjust or align transmitter high-voltage protective or fault circuits	57
A28	Perform corrosion control on electrical assemblies, such as electronic component boards	56
T1034	Conduct OJT	56
A42	Performance check system grounds	55
A12	Determine locations of shorts or opens in cable runs	55
A41	Performance check interlock protective circuits	53
D137	Remove or replace transmitter high-voltage power	52
Q880	Review CAMS output data	52
A45	Provide technical assistance	51
F360	Perform PMIs on receiver or processor systems	51
E168	Adjust or align gas or air waveguide pressurizing/dehydrating systems	51
D101	Adjust or align transmitter modulators	51
D114	Isolate transmitter high-voltage protective or fault circuit malfunctions	51
Q831	Certify status of reparable, serviceable, or condemned parts or equipment	51
Q882	Review status of awaiting parts (AWP) equipment	50
A33	Perform high-reliability soldering	50
A1	Adjust or align analog-to-digital (A-D) or digital-to-analog (D-A) converters	50
A23	Isolate interlock protective circuit malfunctions	50
A37	Perform preventive maintenance inspections (PMIs) on built-in test equipment (BITE)	50
T1049	Maintain training records or files	50

Average number of tasks performed - 171

TABLE 13

TASKS WHICH BEST DIFFERENTIATE BETWEEN TOTAL
DAFSC 2E031 AND DAFSC 2E051 PERSONNEL
(PERCENT MEMBERS PERFORMING)

TASKS		TOTAL 2E031 (N=156)	TOTAL 2E051 (N=565)	DIFF
D124	Perform PMIs on transmitter systems	88	65	23
T1034	Conduct OJT	15	52	-37
S956	Conduct supervisory performance feedback sessions	1	33	-32
S1022	Supervise military personnel	3	35	-32
S1006	Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	8	38	-30
S960	Counsel subordinates concerning personal matters	1	30	-29
S1025	Write performance reports or supervisory appraisals	2	31	-29
T1049	Maintain training records or files	17	46	-29
S964	Determine or establish work assignments or priorities	4	32	-28
Q832	Coordinate supply-related matters with appropriate agencies	15	43	-28
T1047	Evaluate progress of trainees	5	33	-28
S1027	Write recommendations for awards or decorations	1	29	-28
S957	Conduct safety inspections of equipment or facilities	6	33	-27
S954	Conduct self-inspections or self-assessments	6	31	-25
S958	Conduct supervisory orientations for newly assigned personnel	2	27	-25
S1002	Inspect personnel for compliance with military standards	4	29	-25
T1055	Schedule personnel for training	3	27	-24
Q872	Prepare materiel deficiency reports (MDRs)	3	27	-24
Q833	Coordinate maintenance of equipment with appropriate agencies	16	39	-23
T1054	Schedule training	6	29	-23
S979	Establish performance standards for subordinates	2	25	-23
T1043	Evaluate personnel to determine training needs	6	28	-22
Q876	Process or maintain repair cycle assets	4	26	-22

TABLE 14

TASKS WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY
DAFSC 2E031 AND DAFSC 2E051 PERSONNEL
(PERCENT MEMBERS PERFORMING)

TASKS		ACTIVE 2E031 (N= 155)	ACTIVE 2E051 (N=488)	DIFF
T1034	Conduct OJT	15	56	-41
S956	Conduct supervisory performance feedback sessions	1	38	-37
S1022	Supervise military personnel	3	38	-35
S1025	Write performance reports or supervisory appraisals	2	36	-34
S960	Counsel subordinates concerning personal matters	1	34	-33
S1006	Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	8	41	-33
T1049	Maintain training records or files	17	50	-33
T1047	Evaluate progress of trainees	5	36	-31
S1027	Write recommendations for awards or decorations	1	31	-30
Q832	Coordinate supply-related matters with appropriate agencies	15	45	-30
S964	Determine or establish work assignments or priorities	4	34	-30
S957	Conduct safety inspections of equipment or facilities	6	35	-29
S958	Conduct supervisory orientations for newly assigned personnel	2	31	-29
S954	Conduct self-inspections or self-assessments	6	33	-27
S1002	Inspect personnel for compliance with military standards	4	31	-27
T1055	Schedule personnel for training	3	29	-26
Q872	Prepare materiel deficiency reports (MDRs)	3	29	-26
S979	Establish performance standards for subordinates	2	28	-26
T1043	Evaluate personnel to determine training needs	6	31	-25
T1054	Schedule training	6	31	-25
Q833	Coordinate maintenance of equipment with appropriate agencies	16	41	-25
T1036	Determine training requirements	4	29	-25
Q876	Process or maintain repair cycle assets	6	30	-24
S1003	Interpret policies, directives, or procedures for subordinates	2	26	-24
U1075	Maintain historical records	9	32	-23

TABLE 15

REPRESENTATIVE TASKS PERFORMED BY GUARD 2E051 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=77)
A32	Perform general soldering	79
A12	Determine locations of shorts or opens in cable runs	69
A46	Read and interpret equipment technical manuals	68
A29	Perform corrosion control on mechanical assemblies, such as antenna towers, equipment racks, or equipment vans	66
A31	Perform equipment maintenance using test equipment	66
D124	Perform PMIs on transmitter systems	65
A16	Fabricate cables, such as coaxial, power, or triaxial	64
R907	Don or doff chemical warfare personal protective ensembles	62
E211	Perform PMIs on antenna systems	62
A25	Lubricate mechanical bearing surfaces, such as antenna rotary joints or bull gears	62
A28	Perform corrosion control on electrical assemblies, such as electronic component boards	61
F360	Perform PMIs on receiver or processor systems	58
A8	Clean or replace filters	58
A39	Perform visual inspections of communications-electronics systems	57
A57	Set up or tear down portable or transportable shelters	56
R925	Participate in convoys	56
A7	Check or replace desiccants	56
A42	Performance check system grounds	56
R939	Prepare mobile radar equipment for mission deployments	53
J573	Perform PMIs on IFF/SIF equipment	53
R910	Erect tents	53
A19	Fabricate test cables or plugs	52
A17	Fabricate minor hardware, such as clamps, brackets, or braces	52
A41	Performance check interlock protective circuits	52
R915	Inspect mobility bags or kits	51
Q850	Inventory equipment, tools, parts, or supplies	51
R924	Pack or palletize mobility or contingency equipment for shipment or movement	51
A51	Remove or replace general electronics hardware, such as sockets, meters, fuse holders, or clamps	51
E210	Level antenna pedestals	49
D98	Adjust or align transmitter high-voltage power supplies	49
A37	Perform preventive maintenance inspections (PMIs) on built-in test equipment (BITE)	48
R933	Perform operator maintenance on weapons, such as 9mm pistols, M-16s, or M-79 grenade launchers	48
A6	Change oil supplies, such as dielectric oil	48
R946	Set up mobile radar equipment at mission deployment sites	47

* Average Number of Tasks Performed - 134

TABLE 16

REPRESENTATIVE TASKS PERFORMED BY TOTAL 2E071 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=310)
S1006	Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	64
S1022	Supervise military personnel	60
S960	Counsel subordinates concerning personal matters	58
S964	Determine or establish work assignments or priorities	56
S956	Conduct supervisory performance feedback sessions	55
S1027	Write recommendations for awards or decorations	55
S1025	Write performance reports or supervisory appraisals	55
A46	Read and interpret equipment technical manuals	53
S954	Conduct self-inspections or self-assessments	52
T1049	Maintain training records or files	52
S953	Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	52
S958	Conduct supervisory orientations for newly assigned personnel	52
A45	Provide technical assistance	51
S1002	Inspect personnel for compliance with military standards	51
Q878	Research Federal Logistics (FEDLOG) systems	49
T1034	Conduct OJT	49
S970	Develop or establish work schedules	48
Q880	Review CAMS output data	47
S957	Conduct safety inspections of equipment or facilities	47
A39	Perform visual inspections of communications-electronics systems	47
S979	Establish performance standards for subordinates	47
Q832	Coordinate supply-related matters with appropriate agencies	47
S950	Assign personnel to work areas or duty positions	46
Q848	Input core automated maintenance system (CAMS) data on computer terminals	46
S1003	Interpret policies, directives, or procedures for subordinates	45
Q833	Coordinate maintenance of equipment with appropriate agencies	45
S969	Develop or establish work methods or procedures	44
Q831	Certify status of reparable, serviceable, or condemned parts or equipment	44
A32	Perform general soldering	44
S990	Evaluate personnel for promotion, demotion, reclassification, or special awards	43
A31	Perform equipment maintenance using test equipment	43
T1043	Evaluate personnel to determine training needs	42
Q842	Identify and report equipment or supply problems	42
Q850	Inventory equipment, tools, parts, or supplies	42
T1054	Schedule training	41

Average number of tasks performed - 144

TABLE 17

REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2E071 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=243)
S1006	Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	67
S1022	Supervise military personnel	67
S956	Conduct supervisory performance feedback sessions	67
S960	Counsel subordinates concerning personal matters	65
S1025	Write performance reports or supervisory appraisals	65
S1027	Write recommendations for awards or decorations	62
S964	Determine or establish work assignments or priorities	62
S953	Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	59
S1002	Inspect personnel for compliance with military standards	58
S958	Conduct supervisory orientations for newly assigned personnel	58
S979	Establish performance standards for subordinates	53
S954	Conduct self-inspections or self-assessments	53
S970	Develop or establish work schedules	52
S1003	Interpret policies, directives, or procedures for subordinates	52
T1049	Maintain training records or files	51
S950	Assign personnel to work areas or duty positions	51
A45	Provide technical assistance	49
S990	Evaluate personnel for promotion, demotion, reclassification, or special awards	49
S957	Conduct safety inspections of equipment or facilities	49
Q880	Review CAMS output data	48
A46	Read and interpret equipment technical manuals	48
Q832	Coordinate supply-related matters with appropriate agencies	48
S969	Develop or establish work methods or procedures	48
Q878	Research Federal Logistics (FEDLOG) systems	47
S1020	Schedule work assignments or priorities	45
T1034	Conduct OJT	45
Q833	Coordinate maintenance of equipment with appropriate agencies	45
S951	Assign sponsors for newly assigned personnel	45
S984	Evaluate inspection report findings or inspection procedures	44
S1028	Write replies to inspection reports	44
S1018	Schedule personnel for temporary duty (TDY) assignments, leaves, or passes	43
A39	Perform visual inspections of communications-electronics systems	43
Q831	Certify status of reparable, serviceable, or condemned parts or equipment	42
T1047	Evaluate progress of trainees	42
T1043	Evaluate personnel to determine training needs	42
Q848	Input core automated maintenance system (CAMS) data on computer terminals	42

* Average Number of Tasks Performed - 139

TABLE 18

TASKS WHICH BEST DIFFERENTIATE BETWEEN TOTAL
DAFSC 2E051 AND DAFSC 2E071 PERSONNEL
(PERCENT MEMBERS PERFORMING)

TASKS		TOTAL 2E051 (N=565)	TOTAL 2E071 (N=310)	DIFF
A32	Perform general soldering			
A8	Clean or replace filters	75	44	31
D98	Adjust or align transmitter high-voltage power supplies	68	38	30
A29	Perform corrosion control on mechanical assembles, such as antenna towers, equipment racks, or equipment vans	61	34	27
A25	Lubricate mechanical bearing surfaces, such as antenna rotary joints or bull gears	65	38	27
A16	Fabricate cables, such as coaxial, power, or triaxial	60	34	26
A31	Perform equipment maintenance using test equipment	65	39	26
A51	Remove or replace general electronics hardware, such as sockets, meters, fuse holders, or clamps	69	43	26
D124	Perform PMIs on transmitter systems	60	35	25
A28	Perform corrosion control on electrical assemblies, such as electronic component boards	65	40	25
E211	Perform PMIs on antenna systems	61	37	24
S953	Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	23	52	-29
S970	Develop or establish work schedules	20	48	-28
S960	Counsel subordinates concerning personal matters	30	58	-28
S951	Assign sponsors for newly assigned personnel	11	38	-27
S1027	Write recommendations for awards or decorations	29	56	-27
S1006	Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	38	64	-26
S1022	Supervise military personnel	34	59	-25
S950	Assign personnel to work areas or duty positions	21	46	-25
S972	Draft agenda for general meetings, such as staff meetings, briefings, conferences, or workshops	6	31	-25
S958	Conduct supervisory orientations for newly assigned personnel	27	51	-24
S1025	Write performance reports or supervisory appraisals	31	55	-24
S964	Determine or establish work areas or duty positions	32	56	-24
S990	Evaluate personnel for promotion, demotion, reclassification, or special awards	20	43	-23

TABLE 19

TASKS WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY
DAFSC 2E051 AND DAFSC 2E071 PERSONNEL
(PERCENT MEMBERS PERFORMING)

TASKS		ACTIVE 2E051 (N=488)	ACTIVE 2E071 (N=243)	DIFF
A8	Clean or replace filters	70	33	37
A32	Perform general soldering	74	38	36
A29	Perform corrosion control on mechanical assemblies, such as antenna towers, equipment racks, or equipment vans	65	32	33
A51	Remove or replace general electronics hardware, such as sockets, meters, fuse holders, or clamps	61	28	32
A16	Fabricate cables, such as coaxial, power, or triaxial	66	34	32
A31	Perform equipment maintenance using test equipment	70	38	32
A43	Prepare equipment for test measurement and diagnostic equipment (TMDE) processing	59	28	31
D98	Adjust or align transmitter high-voltage power supplies	62	31	31
A25	Lubricate mechanical bearing surfaces, such as antenna rotary joints or bull gears	60	29	31
D124	Perform PMIs on transmitter systems	66	35	31
A28	Perform corrosion control on electrical assemblies, such as electronic component boards	56	27	29
S953	Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	24	58	-34
S951	Assign sponsors for newly assigned personnel	12	44	-32
S960	Counsel subordinates concerning personal matters	35	65	-30
S1027	Write recommendations for awards or decorations	32	62	-30
S970	Develop or establish work schedules	22	52	-30
S1022	Supervise military personnel	38	68	-30
S972	Draft agenda for general meetings, such as staff meetings, briefings, conferences, or workshops	7	36	-29
S1025	Write performance reports or supervisory appraisals	36	65	-29
S956	Conduct supervisory performance feedback sessions	38	67	-29
S950	Assign personnel to work areas or duty positions	23	51	-28
S964	Determine or establish work areas or duty positions	34	62	-28
S958	Conduct supervisory orientations for newly assigned personnel	31	58	-27
S990	Evaluate personnel for promotion, demotion, reclassification, or special awards	22	49	-27

TABLE 20

REPRESENTATIVE TASKS PERFORMED BY GUARD 2E071 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=67)
A46	Read and interpret equipment technical manuals	70
A31	Perform equipment maintenance using test equipment	64
A32	Perform general soldering	63
Q848	Input core automated maintenance system (CAMS) data on computer terminals	61
R907	Don or doff chemical warfare personal protective ensembles	61
A39	Perform visual inspections of communications-electronics systems	61
T1034	Conduct OJT	61
A29	Perform corrosion control on mechanical assemblies, such as antenna towers, equipment racks, or equipment vans	61
Q850	Inventory equipment, tools, parts, or supplies	60
A16	Fabricate cables, such as coaxial, power, or triaxial	60
D124	Perform PMIs on transmitter systems	58
A8	Clean or replace filters	58
A42	Performance check system grounds	58
A45	Provide technical assistance	57
Q878	Research Federal Logistics (FEDLOG) systems	57
Q842	Identify and report equipment or supply problems	54
T1049	Maintain training records or files	54
A43	Prepare equipment for test measurement and diagnostic equipment (TMDE) processing	54
A51	Remove or replace general electronics hardware, such as sockets, meters, fuse holders, or clamps	54
R933	Perform operator maintenance on weapons, such as 9mm pistols, M-16s, or M-79 grenade launchers	52
S1006	Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	51
E211	Perform PMIs on antenna systems	51
A25	Lubricate mechanical bearing surfaces, such as antenna rotary joints or bull gears	51
S954	Conduct self-inspections or self-assessments	51
J573	Perform PMIs on IFF/SIF equipment	51
F360	Perform PMIs on receiver or processor systems	51
A12	Determine locations of shorts or opens in cable runs	51
R925	Participate in convoys	49
Q882	Review status of awaiting parts (AWP) equipment	49
Q840	Evaluate serviceability of equipment, tools, parts, or supplies	49
A28	Perform corrosion control on electrical assemblies, such as electronic component boards	49
R910	Erect tents	48
R927	Perform camouflaging procedures	48

* Average Number of Tasks Performed - 162

TABLE 21

TASKS WHICH BEST DIFFERENTIATE BETWEEN GUARD
DAFSC 2E051 AND DAFSC 2E071 PERSONNEL
(PERCENT MEMBERS PERFORMING)

TASKS		GUARD 2E051 (N=77)	GUARD 2E071 (N=67)	DIFF
O800	Install or remove waveguide systems	42	15	27
O804	Pack or unpack support equipment	45	19	26
T1043	Evaluate personnel to determine training needs	9	45	-36
T1049	Maintain training records or files	20	54	-34
U1075	Maintain historical records	9	43	-34
T1034	Conduct OJT	28	61	-33
Q842	Identify and report equipment or supply problems	25	54	-29
Q880	Review CAMS output data	14	43	-29
S960	Counsel subordinates concerning personal matters	4	33	-29
S1006	Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	22	51	-29
U1071	Maintain administrative files	5	33	-28
Q877	Report communications outages	14	42	-28
T1054	Schedule training	14	42	-28
S954	Conduct self-inspections or self-assessments	24	51	-27
Q851	Issue job control numbers	17	43	-26
Q860	Maintain status records or maintenance requirement records	3	29	-26
T1047	Evaluate progress of trainees	11	36	-25
S970	Develop or establish work schedules	9	34	-25
Q848	Input core automated maintenance system (CAMS) data on computer terminals	36	61	-25
Q882	Review status of awaiting parts (AWP) equipment	25	50	-25
S958	Conduct supervisory orientations for newly assigned personnel	4	28	-24
S1023	Write inspection reports	1	25	-24
Q865	Maintain documentation on items requiring periodic inspections	17	40	-23

TABLE 22

REPRESENTATIVE TASKS PERFORMED BY TOTAL 2E091 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=32)
S960	Counsel subordinates concerning personal matters	84
S953	Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	81
S1027	Write recommendations for awards or decorations	81
S950	Assign personnel to work areas or duty positions	81
S1002	Inspect personnel for compliance with military standards	81
S1006	Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	78
S979	Establish performance standards for subordinates	78
S958	Conduct supervisory orientations for newly assigned personnel	78
S1022	Supervise military personnel	75
S956	Conduct supervisory performance feedback sessions	72
S964	Determine or establish work assignments or priorities	72
S954	Conduct self-inspections or self-assessments	72
S1003	Interpret policies, directives, or procedures for subordinates	72
S965	Develop organizational or functional charts	72
S990	Evaluate personnel for promotion, demotion, reclassification, or special awards	69
S962	Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	69
S1025	Write performance reports or supervisory appraisals	66
S1028	Write replies to inspection reports	66
S991	Evaluate safety or security programs	66
S969	Develop or establish work methods or procedures	63
S957	Conduct safety inspections of equipment or facilities	63
S986	Evaluate job or position descriptions	63
S1001	Initiate actions required due to substandard performance of personnel	59
R907	Don or doff chemical warfare personal protective ensembles	56
R910	Erect tents	56
S1017	Review drafts of policy directives, instructions, or manuals	56
S984	Evaluate inspection report findings or inspection procedures	56
S988	Evaluate logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	56
R926	Participate in mobility exercise planning meetings	56
R927	Perform camouflaging procedures	56
S968	Develop inputs to mobility, contingency, disaster preparedness, or unit emergency or alert plans	56
S985	Evaluate job hazards or compliance with Air Force Occupational Safety and Health (AFOSH) program	56
T1036	Determine training requirements	56

Average number of tasks performed - 120

TABLE 23

REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2E091 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=15)
S953	Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	93
S960	Counsel subordinates concerning personal matters	93
S956	Conduct supervisory performance feedback sessions	87
S979	Establish performance standards for subordinates	87
S1006	Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	80
S1025	Write performance reports or supervisory appraisals	80
S1027	Write recommendations for awards or decorations	80
S982	Evaluate budget requirements	80
S1002	Inspect personnel for compliance with military standards	80
S990	Evaluate personnel for promotion, demotion, reclassification, or special awards	73
S998	Endorse performance reports or supervisory appraisals	73
S958	Conduct supervisory orientations for newly assigned personnel	73
S950	Assign personnel to work areas or duty positions	73
S962	Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	73
S1022	Supervise military personnel	67
S1017	Review drafts of policy directives, instructions, or manuals	67
S972	Draft agenda for general meetings, such as staff meetings, briefings, conferences, or workshops	67
S1003	Interpret policies, directives, or procedures for subordinates	67
S984	Evaluate inspection report findings or inspection procedures	67
S1028	Write replies to inspection reports	67
S1001	Initiate actions required due to substandard performance of personnel	67
S964	Determine or establish work assignments or priorities	60
S986	Evaluate job or position descriptions	60
S974	Draft supplements or changes to directives, such as policy directives, instructions, or manuals	60
S978	Establish organizational policies, such as operating instructions (OIs) or standard operating procedures (SOPs), other than EOIs	60
U1061	Coordinate requests for TDY orders with appropriate agencies	53
S988	Evaluate logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	53
S954	Conduct self-inspections or self-assessments	53
S1009	Plan briefings, conferences, or workshops	53
S991	Evaluate safety or security programs	53
S969	Develop or establish work methods or procedures	53

* Average Number of Tasks Performed - 53

TABLE 24

TASKS WHICH BEST DIFFERENTIATE BETWEEN TOTAL
DAFSC 2E071 AND DAFSC 2E091 PERSONNEL
(PERCENT MEMBERS PERFORMING)

TASKS		TOTAL 2E071 (N=310)	TOTAL 2E091 (N=32)	DIFF
S965	Develop organizational or functional charts	26	72	-46
R926	Participate in mobility exercise planning meetings	17	56	-39
S989	Evaluate mobility, contingency, disaster preparedness, or unit emergency or alert plans	15	53	-38
S968	Develop inputs to mobility, contingency, disaster preparedness, or unit emergency or alert plans	19	56	-37
S950	Assign personnel to work areas or duty positions	46	81	-35
S962	Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	34	69	-35
S991	Evaluate safety or security programs	33	66	-33
S981	Evaluate accident or incident reports	21	53	-32
S1014	Plan deployments of equipment or personnel	12	44	-32
S979	Establish performance standards for subordinates	47	78	-31
S986	Evaluate job or position descriptions	31	62	-31
S910	Erect tents	25	56	-31
S1002	Inspect personnel for compliance with military standards	51	82	-31
R908	Draft or write mobility exercise or deployment after-action reports	13	44	-31
S1017	Review drafts of policy directives, instructions, or manuals	26	56	-30
S953	Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	51	81	-30
R927	Perform camouflaging procedures	27	57	-30
R905	Develop mobility inspection checklists	12	41	-29
R913	Identify equipment requirements for mobility exercises or deployments	15	44	-29
R933	Perform operator maintenance on weapons, such as 9mm pistols, M-16s, or M-79 grenade launchers	23	50	-27
R998	Endorse performance reports or supervisory appraisals	26	53	-27
R925	Participate in convoys	26	53	-27
R915	Inspect mobility bags or kits	23	50	-27
S1003	Interpret policies, directives, or procedures for subordinates	45	72	-27

TABLE 25

TASKS WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY
DAFSC 2E071 AND DAFSC 2E091 PERSONNEL
(PERCENT MEMBERS PERFORMING)

TASKS		ACTIVE 2E071 (N=243)	ACTIVE 2E091 (N=15)	DIFF
T1034	Conduct OJT	45	0	45
Q848	Input core automated maintenance system (CAMS) data on computer terminals	42	0	42
A32	Perform general soldering	38	0	38
A31	Perform equipment maintenance using test equipment	37	0	37
Q850	Inventory equipment, tools, parts, or supplies	37	0	37
U1089	Review TO changes	36	0	36
Q831	Certify status of reparable, serviceable, or condemned parts or equipment	42	6	36
D124	Perform PMIs on transmitter systems	35	0	35
T1043	Evaluate personnel to determine training needs	42	7	35
T1047	Evaluate progress of trainees	42	7	35
Q880	Review CAMS output data	48	13	35
T1054	Schedule training	41	7	34
Q878	Research Federal Logistics (FEDLOG) systems	47	13	34
E211	Perform PMIs on antenna systems	33	0	33
A16	Fabricate cables, such as coaxial, power, or triaxial	33	0	33
S982	Evaluate budget requirements	29	80	-51
S998	Endorse performance reports or supervisory appraisals	31	73	-42
S1017	Review drafts of policy directives, instructions, or manuals	29	67	-38
S989	Evaluate mobility, contingency, disaster preparedness, or unit emergency or alert plans	17	53	-36
S953	Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	59	93	-34
S978	Establish organizational policies, such as operating instructions, (OIs) or standard operating procedures (SOPs), other than EOIs	26	60	-34
S974	Draft supplements or changes to directives, such as policy directives, instructions, or manuals	26	60	-34
S962	Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	39	73	-34

TABLE 26

REPRESENTATIVE TASKS PERFORMED BY GUARD 2E091 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=17)
S950	Assign personnel to work areas or duty positions	88
S954	Conduct self-inspections or self-assessments	88
T1036	Determine training requirements	88
S965	Develop organizational or functional charts	88
R907	Don or doff chemical warfare personal protective ensembles	82
R910	Erect tents	82
R927	Perform camouflaging procedures	82
S964	Determine or establish work assignments or priorities	82
S1022	Supervise military personnel	82
S958	Conduct supervisory orientations for newly assigned personnel	82
Q850	Inventory equipment, tools, parts, or supplies	82
S1027	Write recommendations for awards or decorations	82
S1002	Inspect personnel for compliance with military standards	82
R915	Inspect mobility bags or kits	76
R916	Inspect packed or palletized mobility or contingency equipment prior to transport	76
T1049	Maintain training records or files	76
S1006	Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	76
S992	Evaluate work schedules	76
S960	Counsel subordinates concerning personal matters	76
S991	Evaluate safety or security programs	76
S957	Conduct safety inspections of equipment or facilities	76
T1034	Conduct OJT	76
R925	Participate in convoys	76
S970	Develop or establish work schedules	76
S1003	Interpret policies, directives, or procedures for subordinates	76
S969	Develop or establish work methods or procedures	71
A45	Provide technical assistance	71
S995	Evaluate maintenance or utilization of equipment, tools, parts, supplies, or workspace	71
S1020	Schedule work assignments or priorities	71
S953	Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	71
S993	Evaluate workload requirements	71
R932	Perform operator maintenance on mobilizers, transporters, or heavy-duty vehicles up to 10-ton, such as M-series vehicles	71
S979	Establish performance standards for subordinates	71
R926	Participate in mobility exercise planning meetings	71
T1043	Evaluate personnel to determine training needs	71
T1047	Evaluate progress of trainees	71

* Average Number of Tasks Performed - 179

TABLE 27

TASKS WHICH BEST DIFFERENTIATE BETWEEN GUARD
DAFSC 2E071 AND DAFSC 2E091 PERSONNEL
(PERCENT MEMBERS PERFORMING)

TASKS		GUARD 3E071 (N=67)	GUARD 3E091 (N=17)	DIFF
S965	Develop organizational or functional charts	18	88	-70
S992	Evaluate work schedules	15	77	-62
S991	Evaluate safety or security programs	15	77	-62
S950	Assign personnel to work areas or duty positions	28	88	-60
S1002	Inspect personnel for compliance with military standards	24	82	-58
T1036	Determine training requirements	30	88	-58
S986	Evaluate job or position descriptions	9	65	-56
S1003	Interpret policies, directives, or procedures for subordinates	21	77	-56
S958	Conduct supervisory orientations for newly assigned personnel	28	82	-54
S985	Evaluate job hazards or compliance with Air Force Occupational Safety and Health (AFOSH) program	12	65	-53
S993	Evaluate workload requirements	18	71	-53
S1020	Schedule work assignments or priorities	18	71	-53
S995	Evaluate maintenance or utilization or equipment, tools, parts, supplies, or workspace	19	70	-51
S1027	Write recommendations for awards or decorations	31	82	-51
S1022	Supervise military personnel	31	82	-51
S981	Evaluate accident or incident reports	9	59	-50
S962	Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	15	65	-50
S997	Implement workcenter corrosion prevention and control programs	12	59	-47
R905	Develop mobility inspection checklists	18	65	-47
R926	Participate in mobility exercise planning meetings	24	71	-47
S979	Establish performance standards for subordinates	24	71	-47
S964	Determine or establish work assignments or priorities	36	83	-47
S989	Evaluate mobility, contingency, disaster preparedness, or unit emergency or alert plans	7	52	-45
T1052	Prepare job qualification standards (JQSs)	7	52	-45
S988	Evaluate logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	14	59	-45
S953	Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	25	70	-45

TABLE 28

TASKS WHICH BEST DIFFERENTIATE BETWEEN TOTAL ACTIVE DUTY DAFSC 2E0X1 AND TOTAL AIR NATIONAL GUARD DAFSC 2E0X1 PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS		ACTIVE 3E0X1 (N=902)	GUARD 3E0X1 (N=162)	DIFF
S956	Conduct supervisory performance feedback sessions	41	14	27
S1025	Write performance reports or supervisory appraisals	39	14	25
H421	Adjust or align PS&J boxes	22	1	21
H450	Isolate PS&J box malfunctions	21	1	20
R907	Don or doff chemical warfare personal protective ensembles	24	64	-40
R925	Participate in convoys	19	55	-36
R933	Perform operator maintenance on weapons, such as 9mm pistols, M-16s, or M-79 grenade launchers	16	52	-36
R910	Erect tents	19	54	-35
R924	Pack or palletize mobility or contingency equipment for shipment or movement	15	48	-33
R915	Inspect mobility bags or kits	16	49	-33
R939	Prepare mobile radar equipment for mission deployments	17	47	-30
R927	Perform camouflaging procedures	20	49	-29
J572	Load or clear mode 4 codes	6	35	-29
R916	Inspect packed or palletized mobility or contingency equipment prior to transport	12	40	-28
R932	Perform operator maintenance on mobilizers, transporters, or heavy-duty vehicles up to 10-ton, such as M-series vehicles	18	46	-28
R946	Set up mobile radar equipment at mission deployment sites	17	44	-27
R937	Perform site security or defense	16	39	-23
R912	Identify chemical warfare agents	16	39	-23
D131	Remove or replace liquid cooling system subassemblies	13	36	-23
R935	Perform radar site preparations, such as leveling or clearing	10	33	-23
D111	Isolate liquid cooling system malfunctions	13	36	-23
R940	Prepare mobile radar systems or accessories for operation at deployed locations	15	37	-22
A57	Set up or tear down portable or transportable shelters	27	48	-21
D100	Adjust or align transmitter liquid cooling systems	16	37	-21

TABLE 29

TASKS WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY DAFSC 2E051 AND AIR NATIONAL GUARD DAFSC 2E051 PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS		ACTIVE 3E051 (N=488)	GUARD 3E051 (N=77)	DIFF
Q880	Review CAMS output data	52	14	38
S1025	Write performance reports or supervisory appraisals	36	0	36
S956	Conduct supervisory performance feedback sessions	39	3	36
S960	Counsel subordinates concerning personal matters	35	4	31
T1049	Maintain training records or files	50	20	30
A40	Performance check alarm systems, such as fire alarms or bail-out alarms	38	9	29
A55	Remove or replace servos, synchros, or selsyns	28	1	27
S958	Conduct supervisory orientations for newly assigned personnel	31	4	27
T1034	Conduct OJT	56	29	27
S1022	Supervise military personnel	38	12	26
T1047	Evaluate progress of trainees	36	10	26
F266	Adjust or align automatic frequency control (AFC) circuits	38	12	26
Q882	Review status of awaiting parts (AWP) equipment	50	24	26
R907	Don or doff chemical warfare personal protective ensembles	24	62	-38
R925	Participate in convoys	20	56	-36
R939	Prepare mobile radar equipment for mission deployments	19	53	-34
R924	Pack or palletize mobility or contingency equipment for shipment or movement	17	51	-34
R910	Erect tents	19	53	-34
R915	Inspect mobility bags or kits	18	51	-33
R933	Perform operator maintenance on weapons, such as 9mm pistols, M-16s, or M-79 grenade launchers	18	48	-30
R946	Set up mobile radar equipment at mission deployment sites	18	47	-29
O804	Pack or unpack support equipment	17	46	-29
J572	Load or clear mode 4 codes	7	35	-28
R932	Perform operator maintenance on mobilizers, transporters, or heavy-duty vehicles up to 10-ton, such as M-series vehicles	26	47	-27

TABLE 30

TASKS WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY
DAFSC 2E071 AND AIR NATIONAL GUARD DAFSC 2E071 PERSONNEL
(PERCENT MEMBERS PERFORMING)

TASKS		ACTIVE 3E071 (N=243)	GUARD 3E071 (N=67)	DIFF
S926	Conduct supervisory performance feedback sessions	67	15	52
S1025	Write performance reports or supervisory appraisals	64	19	45
S1022	Supervise military personnel	67	31	36
S1002	Inspect personnel for compliance with military standards	58	24	34
S953	Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	58	25	33
S960	Counsel subordinates concerning personal matters	65	32	32
S1003	Interpret policies, directives, or procedures for subordinates	52	21	31
S1027	Write recommendations for awards or decorations	62	31	31
S951	Assign sponsors for newly assigned personnel	45	15	30
S958	Conduct supervisory orientations for newly assigned personnel	58	28	30
S979	Establish performance standards for subordinates	53	24	29
S986	Evaluate job or position descriptions	37	9	28
S990	Evaluate personnel for promotion, demotion, reclassification, or special awards	49	21	28
S985	Evaluate job hazards or compliance with Air Force Occupational Safety and Health (AFOSH) program	40	12	28
S1018	Schedule personnel for temporary duty (TDY) assignments, leaves, or passes	43	15	28
S1024	Write job or position descriptions	37	9	28
S984	Evaluate inspection report findings or inspection procedures	44	16	28
R933	Perform operator maintenance on weapons, such as 9mm pistols, M-16s, or M-79 grenade launchers	14	62	38
R907	Don or doff chemical warfare personal protective ensembles	26	61	35
J572	Load or clear mode 4 codes	4	36	32
A29	Perform corrosion control on mechanical assemblies, such as antenna towers, equipment racks, or equipment vans	31	61	30
R925	Participate in convoys	19	49	30
R910	Erect tents	20	48	28
A19	Fabricate test cables or plugs	20	48	28
D97	Adjust or align transmitter blanking circuits	15	42	27

TABLE 31

TASKS WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY
DAFSC 2E091 AND AIR NATIONAL GUARD DAFSC 2E091 PERSONNEL
(PERCENT MEMBERS PERFORMING)

TASKS		ACTIVE 3E091 (N=15)	GUARD 3E091 (N=17)	DIFF
S982	Evaluate budget requirements	80	18	62
Q850	Inventory equipment, tools, parts, or supplies	0	82	-82
R916	Inspect packed or palletized mobility or contingency equipment prior to transport	0	76	-76
T1034	Conduct OJT	0	76	-76
T1036	Determine training requirements	20	88	-68
Q839	Estimate job durations	0	65	-65
R924	Pack or palletize mobility or contingency equipment for shipment or movement	0	65	-65
A44	Prepare maintenance schedules	0	65	-65
T1043	Evaluate personnel to determine training needs	7	71	*64
T1047	Evaluate progress of trainees	7	71	-64
Q840	Evaluate serviceability of equipment, tools, parts, or supplies	7	71	-64
U1089	Review TO changes	0	59	-59
A57	Set up or tear down portable or transportable shelters	0	59	-59
R939	Prepare mobile radar equipment for mission deployments	0	59	-59
R947	Transport mobility or contingency equipment to or from deployed locations	0	59	-59
Q863	Maintain TMDE status listings or calibration schedules	0	59	-59
Q852	Issue or log turn-ins of equipment, tools, parts, or supplies	0	59	-59
T1039	Develop training materials or aids	0	59	-59
R940	Prepare mobile radar systems or accessories for operation at deployed locations	0	59	-59
R935	Perform radar site preparations, such as leveling or clearing	0	59	-59
T1054	Schedule training	7	65	-58
U1075	Maintain historical records	7	65	-58
Q831	Certify status of reparable, serviceable, or condemned parts or equipment	7	65	-58
T1055	Schedule personnel for training	7	65	-58

TABLE 32

RELATIVE PERCENT OF TIME SPENT ACROSS DUTIES BY
ACTIVE DUTY FIRST-ENLISTMENT AFSC 2E0X1 PERSONNEL

	DUTY	AVERAGE PERCENT TIME SPENT (N=184)
A	PERFORMING GENERAL MAINTENANCE ACTIVITIES	22
B	MAINTAINING POWER AND DISTRIBUTION EQUIPMENT	4
C	MAINTAINING TIMING SYSTEMS	2
D	MAINTAINING RADAR TRANSMITTER SYSTEMS	13
E	MAINTAINING ANTENNA AND WAVEGUIDE SYSTEMS	10
F	MAINTAINING RECEIVER OR PROCESSOR SYSTEMS	9
G	MAINTAINING REMOTING EQUIPMENT	2
H	MAINTAINING DISPLAY, BRIGHT RADAR INDICATING TOWER (BRITE), AND DIGITAL BRITE (DBRITE) EQUIPMENT	4
I	MAINTAINING ANCILLARY EQUIPMENT	3
J	MAINTAINING IDENTIFICATION FRIEND OR FOE (IFF) AND SELECTIVE IDENTIFICATION FEATURE (SIF) EQUIPMENT	4
K	MAINTAINING RANGE AND ANGLE TRACKING SYSTEMS	1
L	MAINTAINING COMPUTER SYSTEMS	2
M	PERFORMING OPERATIONS ACTIVITIES	5
N	PERFORMING RADAR EVALUATION ACTIVITIES	*
O	PERFORMING RADAR SYSTEM ENGINEERING, INSTALLATION, AND REMOVAL ACTIVITIES	2
P	PERFORMING QUALITY ASSURANCE EVALUATOR OR MAINTENANCE SUPPORT ACTIVITIES	1
Q	PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	8
R	PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	5
S	PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	1
T	PERFORMING TRAINING ACTIVITIES	1
U	PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER SYSTEM ACTIVITIES	2

NOTE: Columns may not add to 100 percent due to rounding

TABLE 33

REPRESENTATIVE TASKS PERFORMED BY FIRST ENLISTMENT 2E0X1 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=184)
A32	Perform general soldering	91
D124	Perform PMIs on transmitter systems	86
A31	Perform equipment maintenance using test equipment	83
A8	Clean or replace filters	83
E211	Perform PMIs on antenna systems	74
D98	Adjust or align transmitter high-voltage power supplies	74
A29	Perform corrosion control on mechanical assemblies, such as antenna towers, equipment racks, or equipment vans	73
A46	Read and interpret equipment technical manuals	72
A16	Fabricate cables, such as coaxial, power, or triaxial	69
A39	Perform visual inspections of communications-electronics systems	68
A51	Remove or replace general electronics hardware, such as sockets, meters, fuse holders, or clamps	67
A25	Lubricate mechanical bearing surfaces, such as antenna rotary joints or bull gears	64
D99	Adjust or align transmitter high-voltage protective or fault circuits	63
A28	Perform corrosion control on electrical assemblies, such as electronic component boards	62
A37	Perform preventive maintenance inspections (PMIs) on built-in test equipment (BITE)	59
F360	Perform PMIs on receiver or processor systems	59
A12	Determine locations of shorts or opens in cable runs	58
A42	Performance check system grounds	57
D137	Remove or replace transmitter high-voltage power supplies	57
D129	Remove or replace dummy loads	57
Q878	Research Federal Logistics (FEDLOG) systems	55
B71	Perform PMIs on power and distribution systems	55
E168	Adjust or align gas or air waveguide pressurizing/dehydrating systems	54
A6	Change oil supplies, such as dielectric oil	54
A43	Prepare equipment for test measurement and diagnostic equipment (TMDE) processing	54
A41	Performance check interlock protective circuits	54
B68	Isolate power supply malfunctions	52
A7	Check or replace desiccants	51
D103	Adjust or align transmitter performance monitor circuits, such as power monitors or voltage standing wave ratio monitors	51
B78	Remove or replace power supplies, other than transmitter high-voltage power supplies	51
A1	Adjust or align analog-to-digital (A-D) or digital-to-analog (D-A) converters	51
D138	Remove or replace transmitter high-voltage power supply subassemblies	51
Q850	Inventory equipment, tools, parts, or supplies	49
D101	Adjust or align transmitter modulators	49

* Average Number of Tasks Performed - 184

TABLE 34

TECHNICAL TASKS RATED HIGHEST IN TRAINING EMPHASIS (TE)
BY AFSC 2E0X1 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING TNG EMP*	1ST JOB	1ST ENL	TASK DIFF**
A46	Read and interpret equipment technical manuals	6.64	66	72	5.40
A31	Perform equipment maintenance using test equipment	6.51	79	83	5.33
A32	Perform general soldering	6.34	93	91	3.56
D124	Perform PMIs on transmitter systems	5.93	87	86	4.26
J573	Perform PMIs on IFF/SIF equipment	5.54	35	41	4.74
D101	Adjust or align transmitter modulators	5.39	35	49	5.27
F360	Perform PMIs on receiver or processor systems	5.34	62	59	4.69
D98	Adjust or align transmitter high-voltage power supplies	5.30	66	74	5.14
J546	Adjust or align IFF/SIF transmitters	5.16	34	36	5.47
D115	Isolate transmitter modulator malfunctions	5.13	24	40	6.40
D99	Adjust or align transmitter high-voltage protective or fault circuits	5.10	56	63	5.25
E211	Perform PMIs on antenna systems	5.07	71	74	4.44
F280	Adjust or align MTI receivers	5.07	34	43	5.71
D126	Performance check transmitter systems, other than during PMIs	5.02	41	48	4.80
A39	Perform visual inspections of communications-electronics systems	4.95	60	68	2.64
B68	Isolate power supply malfunctions	4.93	44	52	5.15
F275	Adjust or align intermediate frequency (IF) amplifiers or preamplifiers	4.90	34	36	5.48
C90	Perform PMIs on timing systems	4.89	46	47	4.17
J542	Adjust or align IFF/SIF receivers	4.82	31	31	5.56
D114	Isolate transmitter high-voltage protective or fault circuit malfunctions	4.79	34	49	6.10
F361	Performance check receiver or processor systems, other than during PMIs	4.75	22	28	5.07
J574	Performance check IFF/SIF systems, other than during PMIs	4.74	13	26	5.01
F279	Adjust or align moving target indicator (MTI) cancellation systems	4.72	41	43	5.84
D116	Isolate transmitter output tube malfunctions	4.69	16	27	6.19

* Mean TE Rating is 1.46, and Standard Deviation is 1.17 (High TE = 2.63)
** Average TD Rating is 5.00

TABLE 35

TASKS RATED HIGHEST IN TASK DIFFICULTY (TD) BY AFSC 2E0X1 PERSONNEL

TASKS		TASK DIFF*	PERCENT MEMBERS PERFORMING 1ST JOB	1ST ENL	2E031	2E051	2E071	TNG EMP*
A11	Design or fabricate electronic circuitry	8.77	10	15	19	15	9	.74
E228	Remove or replace antenna pedestals	8.45	4	9	6	12	11	.52
P828	Write contracts	8.09	1	1	1	1	5	.08
N744	Evaluate prototype radars or modified equipment	7.79	0	0	1	3	7	.23
L632	Isolate computer software malfunctions	7.21	3	8	10	13	7	.95
N742	Evaluate fixed radars	7.16	6	3	5	10	15	.93
E236	Remove or replace antenna slip ring assemblies	7.11	9	15	16	21	16	1.54
E188	Isolate antenna phase array malfunctions	7.09	4	11	12	14	11	2.05
E233	Remove or replace antenna reflectors	7.08	12	15	12	13	16	.80
N746	Measure or plot antenna beam patterns	7.06	1	1	1	3	4	.23
N743	Evaluate mobile radars	7.04	1	7	6	9	10	.95
E181	Isolate antenna beam forming component malfunctions	7.02	9	11	14	12	9	1.72
E182	Isolate antenna beam position control unit malfunctions	6.95	12	15	14	15	12	1.79
N745	Measure antenna controls	6.94	0	1	1	3	3	.16
P819	Evaluate contractor proposals	6.93	0	0	0	2	8	.25
L625	Identify software deficiencies	6.93	3	9	8	12	7	1.10
E258	Remove or replace rotary joints or couplers	6.89	29	27	28	18	23	2.00
N740	Evaluate airborne radars	6.87	0	0	0	1	1	.30
L637	Isolate erasable programmable read-only (EPROM) malfunctions	6.86	1	4	4	5	5	.70
N739	Develop evaluation operating instructions (EOIs)	6.82	0	1	0	5	9	.15
P830	Write quality assurance surveillance plans	6.82	0	0	1	3	9	.08
L641	Isolate peripheral interface or computer bus circuit malfunctions	6.80	3	4	7	7	6	.93
E189	Isolate antenna phase shifter malfunctions	6.76	9	15	14	15	13	2.25
L631	Isolate computer equipment component malfunctions	6.70	1	9	10	17	8	1.00
F327	Isolate monitor and fault isolation (MFI) malfunctions	6.68	6	9	10	13	9	2.21

* Average TD Rating is 5.00

** Mean TE Rating is 1.46, and Standard Deviation is 1.17 (High TE= 2.63)

TABLE 36

EXAMPLES OF STS ITEMS NOT SUPPORTED BY OSR DATA FOR DAFSC 2E0X1
(PERCENT MEMBERS PERFORMING)

STS REFERENCE/TASKS	TNG EMP	% MEMBERS PERFORMING 1ST ENL (N=184)	3-LVL (N=155)	5-LVL (N=488)	TSK DIF
22.1.5 Remove and replace an LRU					
H463 Remove or replace display equipment electronic component boards	1.64	14	19	17	3.95
H464 Remove or replace display equipment modules	1.66	8	10	13	3.94
27.3 Use diagnostic programs to isolate malfunction to LRU					
L630 Isolate computer data entry (CDE, radar control unit panel, or keyboard malfunctions	.92	8	10	12	6.01
L631 Isolate computer equipment component malfunctions	1.00	9	10	17	6.70
L632 Isolate computer software malfunctions	.95	8	10	13	7.21
L639 Isolate hard disk drive or controller malfunctions	1.11	8	9	13	6.39
L640 Isolate peripheral hardware malfunctions, such as modems, printers, or plotters	1.21	14	17	14	6.03
L641 Isolate peripheral interface or computer bus circuit malfunctions	.93	4	7	7	6.80
L642 Isolate peripheral subassembly malfunctions	.93	5	5	7	6.33
27.4 Remove and replace LRU					
L624 Clean or reset peripheral interface cards	.72	10	11	16	2.83
L655 Remove or replace computer subassemblies	1.08	13	12	18	3.96

TD MEAN = 5.00; S.D. = 1.00; TE MEAN = 1.46; S.D. = 1.17

TABLE 37

TECHNICAL TASKS PERFORMED BY 20 PERCENT OR MORE
GROUP MEMBERS BUT NOT REFERENCED BY STS FOR DAFSC 2E0X1

TASKS		PERCENT MEMBERS PERFORMING					
		TNG EMP	1ST JOB	1ST ENL	2E031 (N=155)	2E051 (N=488)	TSK DIF
A1	Adjust or align analog-to-digital (A-D) or digital-to-analog (D-A) converters	3.57	41	51	52	50	4.47
A12	Determine locations of shorts or opens in cable runs	4.46	51	58	58	55	4.73
A16	Fabricate cables, such as coaxial, power, or triaxial	4.64	53	69	67	66	4.26
A46	Read and interpret equipment technical manuals	6.64	66	72	73	69	5.40
D137	Remove or replace transmitter high-voltage power supplies	3.52	43	57	57	52	4.52
E168	Adjust or align gas or air waveguide pressurizing/dehydrating systems	3.79	47	54	51	51	4.20
E211	Perform PMIs on antenna systems	5.07	71	74	74	60	4.44
A19	Fabricate test cables or plugs	2.54	26	40	41	46	4.16
A49	Remove or replace electric motors, generators, or brushes	1.74	34	40	41	42	4.65
A52	Remove or replace internal chassis wiring	1.57	25	34	34	36	6.30
A57	Set up or tear down portable or transportable shelters	2.62	24	31	30	31	6.36
A45	Provide technical assistance	.48	34	42	44	51	6.22
A25	Lubricate mechanical bearing surfaces, such as antenna rotary joints or bull gears	3.03	50	64	70	60	2.01
A28	Perform corrosion control on electrical assemblies, such as electronic component boards	4.69	51	62	68	56	2.99
A29	Perform corrosion control on mechanical assemblies, such as antenna towers, equipment racks, or equipment vans	4.41	65	73	75	65	2.98

TD MEAN = 5.00; SD = 1.00

TABLE 38

JOB SATISFACTION INDICATORS FOR ACTIVE DUTY AFSC 2E0X1 TAFMS GROUPS
(PERCENT MEMBERS RESPONDING)

	1-48 MONTHS TAFMS		49-96 MONTHS TAFMS		97+ MONTHS TAFMS	
	AFSC 2E0X1 (N=184)	COMP SAMPLE (N=3,883)	AFSC 2E0X1 (N=205)	COMP SAMPLE (N=2,651)	AFSC 2E0X1 (N=512)	COMP SAMPLE (N=6,033)
EXPRESSED JOB INTEREST:						
INTERESTING	63	65	66	65	76	74
SO-SO	21	19	19	20	13	17
DULL	16	16	66	15	11	9
PERCEIVED UTILIZATION OF TALENTS:						
FAIRLY WELL TO PERFECTLY	75	72	77	75	83	83
LITTLE OR NOT AT ALL	25	28	23	25	17	17
PERCEIVED UTILIZATION OF TRAINING:						
FAIRLY WELL TO PERFECTLY	85	85	77	82	76	80
LITTLE OR NOT AT ALL	15	15	23	18	24	20
SENSE OF ACCOMPLISHMENT GAINED FROM WORK:						
SATISFIED	64	64	63	66	68	72
NEUTRAL	12	17	10	15	11	11
DISSATISFIED	24	19	27	19	21	17
REENLISTMENT INTENTIONS:						
YES, OR PROBABLY YES	42	52	57	66	68	71
NO, OR PROBABLY NO	58	48	43	34	11	%
PLAN TO RETIRE	0	0	0	1	21	21

TABLE 39

COMPARISON OF CURRENT SURVEY AND PREVIOUS SURVEY TAFMS GROUPS
(PERCENT MEMBERS RESPONDING)

	1-48 MONTHS TAFMS		49-96 MONTHS TAFMS		97+ MONTHS TAFMS	
	1995 2E0X1 (N=173)	1998 2E0X1 (N=184)	1995 2E0X1 (N=136)	1998 2E0X1 (N=205)	1995 2E0X1 (N=430)	1998 2E0X1 (N=512)
EXPRESSED JOB INTEREST:						
INTERESTING	80	63	79	66	82	76
SO-SO	10	21	12	19	11	13
DULL	10	16	10	66	7	11
PERCEIVED UTILIZATION OF TALENTS:						
FAIRLY WELL TO PERFECTLY	86	75	90	77	87	83
LITTLE OR NOT AT ALL	14	25	10	23	13	17
PERCEIVED UTILIZATION OF TRAINING:						
FAIRLY WELL TO PERFECTLY	90	85	82	77	80	76
LITTLE OR NOT AT ALL	10	15	18	23	20	24
SENSE OF ACCOMPLISHMENT GAINED FROM WORK:						
SATISFIED	75	64	74	63	73	68
NEUTRAL	10	12	14	10	9	11
DISSATISFIED	14	24	13	27	18	21
REENLISTMENT INTENTIONS:						
YES, OR PROBABLY YES	61	42	73	57	66	68
NO, OR PROBABLY NO	39	58	27	43	13	11
PLAN TO RETIRE	0	0	0	0	20	21

TABLE 40

COMPARISONS OF JOB SATISFACTION INDICATORS FOR MEMBERS OF SPECIALTY JOBS FOR AFSC 2E0X1
(PERCENT MEMBERS RESPONDING)

	RADAR SYSTEMS MAINTENANCE (STG096) (N=507)	MAINTENANCE CONTROL (STG131) (N=40)	MAINTENANCE SUPPORT EVALUATOR (STG128) (N=32)	ENGINEERING AND INSTALLATION (STG039) (N=27)	RADAR EVALUATION (STG271) (N=18)
EXPRESSED JOB INTEREST:					
INTERESTING	75	60	59	70	94
SO-SO	15	15	22	19	6
DULL	10	25	19	11	0
PERCEIVED UTILIZATION OF TALENTS:					
FAIRLY WELL TO PERFECTLY	86	70	78	74	100
LITTLE OR NOT AT ALL	14	30	22	26	0
PERCEIVED UTILIZATION OF TRAINING:					
FAIRLY WELL TO PERFECTLY	89	58	85	70	100
LITTLE OR NOT AT ALL	11	43	15	30	0
SENSE OF ACCOMPLISHMENT GAINED FROM WORK:					
SATISFIED	69	63	63	78	100
NEUTRAL	12	10	6	19	0
DISSATISFIED	19	28	31	4	0
REENLISTMENT INTENTIONS:					
YES, OR PROBABLY YES	65	63	66	70	83
NO, OR PROBABLY NO	28	23	22	19	17
PLAN TO RETIRE	6	15	13	11	0

TABLE 40 (CONTINUED)

COMPARISONS OF JOB SATISFACTION INDICATORS BY SPECIALTY JOBS FOR AFSC 2E0X1
(PERCENT MEMBERS RESPONDING)

	CONTRACT EVALUATOR/QAE (STG141) (N=16)	TECHNICAL ORDER PERSONNEL (STG104) (N=9)	TRAINING (STG068) (N=30)	SUPERVISORY AND MANAGEMENT (STG079) (N=122)
EXPRESSED JOB INTEREST:				
INTERESTING	81	67	93	80
SO-SO	13	33	7	11
DULL	6	0	0	9
PERCEIVED UTILIZATION OF TALENTS:				
FAIRLY WELL TO PERFECTLY	81	100	90	86
LITTLE OR NOT AT ALL	19	0	10	14
PERCEIVED UTILIZATION OF TRAINING:				
FAIRLY WELL TO PERFECTLY	69	78	77	73
LITTLE OR NOT AT ALL	31	22	20	27
SENSE OF ACCOMPLISHMENT GAINED FROM WORK:				
SATISFIED	81	67	73	69
NEUTRAL	6	33	13	11
DISSATISFIED	13	0	13	20
REENLISTMENT INTENTIONS:				
YES, OR PROBABLY YES	63	100	77	53
NO, OR PROBABLY NO	19	0	10	8
PLAN TO RETIRE	19	0	13	39

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APPENDIX B

SELECTED REPRESENTATIVE TASKS PERFORMED BY MEMBERS OF CAREER LADDER JOBS

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TABLE B1

TRAINING CLUSTER

TASKS		PERCENT MEMBERS PERFORMING (N=30)
T1039	Develop training materials or aids	93
T1033	Conduct formal course classroom training	83
T1050	Personalize lesson plans	83
T1029	Administer or score tests	77
T1047	Evaluate progress of trainees	73
T1048	Inspect training materials or aids for operation or suitability	70
T1037	Develop formal course curricula, plans of instruction (POIs), or specialty training standards (STSs)	67
T1056	Write test questions	67
T1040	Develop training programs, plans, or procedures	67
T1049	Maintain training records or files	60
T1053	Procure training aids, space, or equipment	57
T1041	Establish or maintain study reference files	53
T1038	Develop performance tests	53
T1035	Conduct training conferences, briefings, or debriefings	53
T1046	Evaluate effectiveness of training programs, plans, or procedures	53
S954	Conduct self-inspections or self-assessments	47
T1054	Schedule training	43
T1034	Conduct OJT	43
T1036	Determine training requirements	43
T1031	Brief organizational personnel concerning training programs or matters	43
T1044	Evaluate training methods or techniques of instructors	40
T1043	Evaluate personnel to determine training needs	37
S1006	Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	37
A46	Read and interpret equipment technical manuals	33
T1055	Schedule personnel for training	33
A45	Provide technical assistance	30

TABLE B2

MAINTENANCE CONTROL JOB

TASKS		PERCENT MEMBERS PERFORMING (N=40)
Q851	Issue job control numbers	100
Q856	Maintain equipment status reports	98
Q848	Input core automated maintenance system (CAMS) data on computer terminals	93
Q880	Review CAMS output data	93
Q877	Report communications outages	88
Q859	Maintain master equipment identification listings	80
Q882	Review status of awaiting parts (AWP) equipment	80
Q865	Maintain documentation on items requiring periodic inspections	78
Q833	Coordinate maintenance of equipment with appropriate agencies	78
Q862	Maintain TCTOs, TCTO status reports, or TCTO history listings	75
Q873	Prepare monthly maintenance reports	73
Q861	Maintain support equipment daily status records	65
U1083	Maintain or update status indicators, such as boards, graphs, or charts	65
Q836	Document equipment cannibalization	65
Q839	Estimate job durations	63
T1034	Conduct OJT	63
Q860	Maintain status records or maintenance requirement records	60
S964	Determine or establish work assignments or priorities	60
S1006	Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	60
U1068	Initiate or maintain standby rosters or workcenter pyramid recall rosters	53
Q832	Coordinate supply-related matters with appropriate agencies	53
Q842	Identify and report equipment or supply problems	50
T1049	Maintain training records or files U1059	48
S969	Develop or establish work methods or procedures	45
S954	Conduct self-inspections or self-assessments	45
T1036	Determine training requirements	43
T1054	Schedule training	43

TABLE B3

SUPERVISORY AND MANAGEMENT CLUSTER

TASKS		PERCENT MEMBERS PERFORMING (N=122)
S956	Conduct supervisory performance feedback sessions	93
S960	Counsel subordinates concerning personal matters	91
S1022	Supervise military personnel	90
S1025	Write performance reports or supervisory appraisals	90
S1006	Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	89
S1027	Write recommendations for awards or decorations	87
S964	Determine or establish work assignments or priorities	83
S953	Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	82
S958	Conduct supervisory orientations for newly assigned personnel	81
S1002	Inspect personnel for compliance with military standards	80
S979	Establish performance standards for subordinates	77
S990	Evaluate personnel for promotion, demotion, reclassification, or special awards	77
S950	Assign personnel to work areas or duty positions	77
S1003	Interpret policies, directives, or procedures for subordinates	76
S970	Develop or establish work schedules	74
S962	Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	68
S969	Develop or establish work methods or procedures	67
S1018	Schedule personnel for temporary duty (TDY) assignments, leaves, or passes	65
S1020	Schedule work assignments or priorities	65
S992	Evaluate work schedules	65
S951	Assign sponsors for newly assigned personnel	65
S1028	Write replies to inspection reports	63
S988	Evaluate logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	62
S954	Conduct self-inspections or self-assessments	61
S987	Evaluate job-related suggestions	61
S986	Evaluate job or position descriptions	61
S957	Conduct safety inspections of equipment or facilities	61
T1049	Maintain training records or files	59
S1001	Initiate actions required due to substandard performance of personnel	59
S984	Evaluate inspection report findings or inspection procedures	58
S1024	Write job or position descriptions	57
Q832	Coordinate supply-related matters with appropriate agencies	55
S998	Indorse performance reports or supervisory appraisals	54
S993	Evaluate workload requirements	53
S980	Establish procedures for accountability of equipment, tools, parts, or supplies	52
S995	Evaluate maintenance or utilization of equipment, tools, parts, supplies, or workspace	51

TABLE B4

MAINTENANCE SUPPORT EVALUATOR

TASKS		PERCENT MEMBERS PERFORMING (N=32)
S1023	Write inspection reports	97
P826	Perform technical inspections	91
P823	Perform surveillance of equipment condition, such as technical order (TO) completeness or corrosion control	88
P822	Perform surveillance of maintenance management functions	88
P825	Perform surveillance of site support functions, such as TMDE, technical data, or supply functions	84
S984	Evaluate inspection report findings or inspection procedures	81
S954	Conduct self-inspections or self-assessments	81
T1042	Evaluate maintenance standardization/evaluation programs (MSEPs)	78
U1081	Maintain TO libraries	78
U1072	Maintain ATOMS accounts	75
S1006	Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	72
U1077	Maintain publications libraries, other than TO libraries	72
S967	Develop self-inspection or self-assessment program checklists	72
T1046	Evaluate effectiveness of training programs, plans, or procedures	69
U1063	Establish automated technical order management system (ATOMS) accounts	66
U1079	Maintain TCTOs	66
U1089	Review TO changes	66
S955	Conduct staff assistance visits, inspections, or audits	63
S957	Conduct safety inspections of equipment or facilities	63
S995	Evaluate maintenance or utilization of equipment, tools, parts, supplies, or workspace	63
U1090	Review TOs	63
Q845	Initiate quality control discrepancy reports	63
Q878	Research Federal Logistics (FEDLOG) systems	63
U1059	Compile data for records, reports, logs, or trend analyses	59
S991	Evaluate safety or security programs	59
Q880	Review CAMS output data	59
Q848	Input core automated maintenance system (CAMS) data on computer terminals	59
S1022	Supervise military personnel	59
T1043	Evaluate personnel to determine training needs	59
S963	Determine or establish publications requirements	59
S985	Evaluate job hazards or compliance with Air Force Occupational Safety and Health (AFOSH) program	56
A45	Provide technical assistance	56
U1071	Maintain administrative files	56
S1007	Perform grounding inspections	56
T1049	Maintain training records or files	56

TABLE B5

CONTRACT EVALUATOR/ QUALITY ASSURANCE EVALUATOR

TASKS		PERCENT MEMBERS PERFORMING (N=16)
P819	Evaluate contractor proposals	100
P815	Develop, evaluate, or rate contract data requirements list (CDRL) items	100
P814	Develop contractor surveillance implementation plans	100
P813	Coordinate contract issues, such as modification proposals or equipment authorizations, with contract parties	94
P822	Perform surveillance of maintenance management functions	94
P820	Initiate contractor discrepancy reports	94
P823	Perform surveillance of equipment condition, such as technical order (TO) completeness or corrosion control	94
P827	Recommend contract changes	94
P830	Write quality assurance surveillance plans	88
P825	Perform surveillance of site support functions, such as TMDE, technical data, or supply functions	81
P817	Establish quality standards for contractor ratings	81
S1006	Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	75
P829	Write surveillance reports	75
S991	Evaluate safety or security programs	75
U1061	Coordinate requests for TDY orders with appropriate agencies	69
S984	Evaluate inspection report findings or inspection procedures	69
P818	Evaluate CIPs	69
P824	Perform surveillance of equipment performance, such as power out or minimum discernible signal	69
U1059	Compile data for records, reports, logs, or trend analyses	63
S953	Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	63
S954	Conduct self-inspections or self-assessments	56
P828	Write contracts	56
S957	Conduct safety inspections of equipment or facilities	56
S1023	Write inspection reports	56
P826	Perform technical inspections	56
A39	Perform visual inspections of communications-electronics systems	56
A46	Read and interpret equipment technical manuals	56
S1009	Plan briefings, conferences, or workshops	56
S988	Evaluate logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	50
S985	Evaluate job hazards or compliance with Air Force Occupational Safety and Health (AFOSH) program	50
S964	Determine or establish work assignments or priorities	50
A45	Provide technical assistance	50
S967	Develop self-inspection or self-assessment program checklists	50

TABLE B6

TECHNICAL ORDER PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=9)
U1072	Maintain ATOMS accounts	100
U1081	Maintain TO libraries	100
P826	Perform technical inspections	89
P823	Perform surveillance of equipment condition, such as technical order (TO) completeness or corrosion control	78
U1090	Review TOs	78
U1063	Establish automated technical order management system (ATOMS) accounts	67
U1089	Review TO changes	67
U1079	Maintain TCTOs	56
P825	Perform surveillance of site support functions, such as TMDE, technical data, or supply functions	56
S957	Conduct safety inspections of equipment or facilities	56
Q880	Review CAMS output data	56
T1042	Evaluate maintenance standardization/evaluation programs (MSEPs)	44
U1071	Maintain administrative files	44
T1049	Maintain training records or files	44
P824	Perform surveillance of equipment performance, such as power out or minimum discernible signal	44
Q872	Prepare materiel deficiency reports (MDRs)	44
Q845	Initiate quality control discrepancy reports	44
T1055	Schedule personnel for training	33
S1002	Inspect personnel for compliance with military standards	33
U1088	Review publishing bulletins	33
S954	Conduct self-inspections or self-assessments	33
Q848	Input core automated maintenance system (CAMS) data on computer terminals	33
Q862	Maintain TCTOs, TCTO status reports, or TCTO history listings	33
U1077	Maintain publications libraries, other than TO libraries	33

TABLE B7

RADAR SYSTEMS MAINTENANCE CLUSTER

TASKS		PERCENT MEMBERS PERFORMING (N=507)
A32	Perform general soldering	97
D124	Perform PMIs on transmitter systems	96
A31	Perform equipment maintenance using test equipment	96
A8	Clean or replace filters	94
D98	Adjust or align transmitter high-voltage power supplies	91
A29	Perform corrosion control on mechanical assemblies, such as antenna towers, equipment racks, or equipment vans	91
A46	Read and interpret equipment technical manuals	90
E211	Perform PMIs on antenna systems	89
A51	Remove or replace general electronics hardware, such as sockets, meters, fuse holders, or clamps	88
A25	Lubricate mechanical bearing surfaces, such as antenna rotary joints or bull gears	88
D99	Adjust or align transmitter high-voltage protective or fault circuits	88
A16	Fabricate cables, such as coaxial, power, or triaxial	86
A39	Perform visual inspections of communications-electronics systems	85
A28	Perform corrosion control on electrical assemblies, such as electronic component boards	82
F360	Perform PMIs on receiver or processor systems	81
D137	Remove or replace transmitter high-voltage power supplies	81
Q878	Research Federal Logistics (FEDLOG) systems	80
D101	Adjust or align transmitter modulators	80
D114	Isolate transmitter high-voltage protective or fault circuit malfunctions	79
A43	Prepare equipment for test measurement and diagnostic equipment (TMDE) processing	79
A41	Performance check interlock protective circuits	78
A12	Determine locations of shorts or opens in cable runs	78
A42	Performance check system grounds	77
D115	Isolate transmitter modulator malfunctions	77
D108	Isolate air circulating system malfunctions, such as fans or blowers	77
E168	Adjust or align gas or air waveguide pressurizing/dehydrating systems	77
Q850	Inventory equipment, tools, parts, or supplies	76
C90	Perform PMIs on timing systems	76
Q848	Input core automated maintenance system (CAMS) data on computer terminals	76
D126	Performance check transmitter systems, other than during PMIs	75
A23	Isolate interlock protective circuit malfunctions	74
D138	Remove or replace transmitter high-voltage power supply subassemblies	74
D148	Repair transmitter system component malfunctions	73
D140	Remove or replace transmitter modulator subassemblies	73
D103	Adjust or align transmitter performance monitor circuits, such as power monitors or voltage standing wave ratio monitors	73

TABLE B8

ENGINEER AND INSTALLATION

TASKS		PERCENT MEMBERS PERFORMING (N=27)
O770	Install or remove equipment cabinets or consoles	96
O771	Install or remove external power or signal cabling	93
O781	Install or remove interconnecting cables or harnesses	93
O767	Install or remove conduits	89
O804	Pack or unpack support equipment	85
O766	Install or remove cable troughs or ducting	85
O765	Install or remove cable support systems	81
O764	Install or remove cable junction boxes	81
O777	Install or remove grounding systems	81
A17	Fabricate minor hardware, such as clamps, brackets, or braces	78
O776	Install or remove ground anchoring equipment	74
A16	Fabricate cables, such as coaxial, power, or triaxial	70
A32	Perform general soldering	70
O803	Inventory or inspect project (scheme) materials	67
O808	Review project (scheme) packages	67
O790	Install or remove radar pedestal systems	67
O774	Install or remove fixed shelters	67
O755	Conduct shakedown tests	67
O775	Install or remove fixed-site antennas	67
O782	Install or remove lightning arrestors	67
A14	Fabricate cable harnesses	67
O784	Install or remove obstruction lights	67
A18	Fabricate system grounds	63
O773	Install or remove fiber optics remoting equipment	63
A12	Determine locations of shorts or opens in cable runs	63
A19	Fabricate test cables or plugs	59
R907	Don or doff chemical warfare personal protective ensembles	59
O800	Install or remove waveguide systems	59
A39	Perform visual inspections of communications-electronics systems	59
O791	Install or remove radar reflectors	56
O780	Install or remove IFF/SIF fixed radar systems	56
O757	Install or remove antenna control units	56
O809	Rig equipment for lifting by special purpose vehicles, such as cranes	52
O812	Validate completion of project support agreements, such as allied support	52
O763	Install or remove building intercommunications systems	52
O762	Install or remove bright radar indicator tower equipment (BRITE) systems	52
Q850	Inventory equipment, tools, parts, or supplies	48
T1049	Maintain training records or files	48
R924	Pack or palletize mobility or contingency equipment for shipment or movement	48

TABLE B9

RADAR EVALUATION

TASKS		PERCENT MEMBERS PERFORMING (N=18)
N737	Analyze radar performance using computers or specialized hardware	100
N741	Evaluate beacon systems	100
N738	Construct radar coverage indicators (RCIs)	100
N752	Perform solar boresights	100
N753	Predict theoretical radar detection capabilities	100
N751	Perform prefield studies	100
N742	Evaluate fixed radars	94
N754	Prepare evaluation report products	94
N749	Perform clutter tests	94
N739	Develop evaluation operating instructions (EOIs)	94
N748	Perform azimuth orientation checks	89
N750	Perform lobing studies	89
N743	Evaluate mobile radars	72
A46	Read and interpret equipment technical manuals	72
N746	Measure or plot antenna beam patterns	67
N747	Perform annular subclutter visibility (ASCV) checks	67
A45	Provide technical assistance	67
U1061	Coordinate requests for TDY orders with appropriate agencies	61
N744	Evaluate prototype radars or modified equipment	61
E210	Level antenna pedestals	56
E165	Adjust or align azimuth change pulse (ACP) or azimuth reference pulse (ARP) generators	50
A32	Perform general soldering	50
T1034	Conduct OJT	44
J574	Performance check IFF/SIF systems, other than during PMIs	44
A5	Calculate refractive indices using weather data	44
J529	Adjust or align identification friend or foe/selective identification feature (IFF/SIF) antenna systems	44
A19	Fabricate test cables or plugs	44
N745	Measure antenna contours	39

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