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PREFACE

This report presents the results of a detailed Air Force occupational survey of the Wideband Communications Equipment (AFSC 304X0) specialty. The survey was requested by the Training Development Service Division (OMT) of the USAF Occupational Measurement Center. Authority for conducting occupational surveys is contained in AFR 35-2. Computer products upon which this report is based are available for use by operations and training officials.

The survey instrument used in this project was developed by Mr Roberto Salinas, Inventory Development Specialist. Computer programming support was provided by Mr Wayne Fruge, and administrative support was provided by Mr Richard Ramos. First Lieutenant Charles T. Jervey analyzed the data and wrote the final report. This report has been reviewed and approved by Lieutenant Colonel Charles D. Gorman, Chief, Airman Analysis Branch, Occupational Analysis Division, USAF Occupational Measurement Center.

Copies of this report are distributed to Air Staff sections, major commands, and other interested training and management personnel. Additional copies and computer products from which this report was produced may be obtained on request to the USAF Occupational Measurement Center, Attention: Chief, Occupational Analysis Division (OMY), Randolph AFB, Texas 78150-5000.

This report has been reviewed and approved.

RONALD C. BAKER, Colonel, USAF Commander USAF Occupational Measurement Center JOSEPH S. TARTELL Chief, Occupational Analysis Division USAF Occupational Measurement Center 1. <u>Survey Coverage</u>: Inventory booklets were administered worldwide to 2,842 Wideband Communications Equipment (AFSC 304X0) incumbents. The 1,833 respondents in the survey sample represent 55 percent of all assigned Wideband Communications Equipment personnel.

2. <u>Career Ladder Structure</u>: Nine jobs (including 16 variations) were identified in the career ladder structure analysis. The jobs were directly involved in supervisory functions, maintenance functions related to Wideband Communications systems, training, or mobility.

3. <u>Career Ladder Progression</u>: The AFSC 304X0 career ladder shows a common career progression pattern for mission equipment maintenance specialties as one advances from skill level to skill level. At the apprentice level, a basically technical job is performed, expanding to a broader job at the specialist level, where incumbents perform a wider range of technical tasks and begin to perform some supervisory tasks. At the technician level, supervisory tasks gained significantly in time spent performing.

4. <u>AFR 39-1 Specialty Descriptions</u>: A comparison of survey data to AFR 39-1 indicates the AFR 39-1 specialty descriptions provide an adequate overview of each of the specialty groups.

5. Job Satisfaction: Overall, respondents were satisfied with their jobs. Most specialty jobs and TAFMS groups felt their talents and training were well utilized. Comparative analysis with mission equipment maintenance personnel surveyed in 1987 showed a somewhat lower job satisfaction for the AFSC 304X0 career ladder, while comparison with AFSC 304X0 personnel surveyed in 1981 showed a more positive view of job satisfaction.

6. <u>Training Analysis</u>: Review of the matching of survey data to the AFSC 304X0 Specialty Training Standard (STS) indicates that most task performance sections are well supported. Data did not support several paragraphs, however, and they should be looked at to determine if inclusion in future revisions of the STS are warranted. Data indicate that performance measured sections of the Plan of Instruction (POI) of the E3ABR30430 002, Wideband Communications Equipment Specialist Course, showed significant percentages of first-enlistment airmen performing those tasks matched to these sections. Tasks not matched to the STS and POI indicate additional areas that may deserve inclusion in any revision to the documents. Areas of electronics principles (EP) were identified that were performed by 50 percent or more of the AFSC 30450 career ladder.

7. Additional Analyses: Analysis of MAJCOMs showed differences in areas of wideband communication equipment maintenance, although performance tasks were similar. MAJCOM groups tended to specialize in one particular area, whether it be Base Intrusion Security System (BISS), mobility, receiver maintenance, or electronic and installation functions. CONUS and overseas groups also showed the same differences. CONUS groups spent more time maintaining BISS, while overseas personnel concentrated on receiver maintenance. 8. <u>Implications</u>: The AFSC 304X0 career ladder is very diverse. There were no major differences discovered between skill levels, but MAJCOMs and CONUS and overseas personnel showed differences in the various areas of wideband communications maintenance. The AFR 39-1 job descriptions were adequate for all skill levels, and job satisfaction was positive for the jobs identified. Most areas of the STS were supported by survey data, although several paragraphs had low percentages of members performing. Data showed significant percentages of members performing tasks matched to performance measured sections of the POI. Tasks not referenced to either document should be reviewed by training personnel for possible inclusion in any revised STS or POI.

OCCUPATIONAL SURVEY REPORT WIDEBAND COMMUNICATIONS EQUIPMENT (AFSC 304X0)

INTRODUCTION

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This is a report of the occupational survey of the Wideband Communications Equipment specialty completed by the Occupational Analysis Division, USAF Occupational Measurement Center, in October 1988. The USAFOMC Training Development Services Division (OMT) requested this project to obtain current occupational survey information for use in developing a Training Requirements Analysis (TRA) for the AFSC 304X0 career ladder.

Background

The Wideband Communications Equipment specialty was last surveyed in November 1981 as part of a combined survey of the AFSC 304X0 (Wideband Communications Equipment), AFSC 304X4 (Ground Radio Communications), and AFSC 304X6 (Space Communications Systems Equipment) career ladders.

The primary mission of the AFSC 304X0 specialty is to install, inspect, test, adjust, repair, modify, maintain, and operate fixed, mobile, and transportable wideband communications systems and maintain intrusion detection systems. Personnel in this career ladder must have a working knowledge of electronics and communications, including transistors and solid-state components applicable to wideband communications and intrusion detection systems.

All personnel entering this specialty must attend Course E3ABR30430 002, Wideband Communications Equipment Specialist, 25 weeks in length, at Keesler AFB, Mississippi. The course is a combination of principles-centered training and hands-on training in the operation, installation, inspection, testing, adjustment, organizational maintenance, and repair of microwave, voice, and teletype multiplex transportable wideband communications equipment and associated test equipment. Eleven of these 25 weeks is spent in electronic principles (EP), with the remainder of the course consisting of applied communications principles as described above.

Roughly 80 percent of the personnel in this specialty are assigned to AF Communications Command (AFCC), with the remaining 20 percent assigned to Tactical Air Command (TAC), United States Air Force Europe (USAFE), Pacific Air Command (PACAF), Air Training Command (ATC), Air Force Systems Command (AFSC), Air Force Elements Europe (AFELM EUR), and Air Force Elements Other (AFELM OTH).

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SURVEY METHODOLOGY

Inventory Development

The data collection instrument for this occupational survey was USAF Job Inventory AFPT 90-304-413, dated May 1987. A tentative task list was formulated in visits with AFSC 304X0 personnel at Keesler AFB, Mississippi, to include tasks suggested by the specialty training standard (STS) and other career ladder documents. The tentative task list was then refined and validated by subsequent visits to the six operational CONUS sites listed below:

> Dyess AFB, Texas (SAC) -- Base Intrusion Security System (BISS) Tinker AFB, Oklahoma (AFLC) -- Mobility Eglin AFB, Florida (AFSC) -- Fixed Microwave Radio Keesler AFB, Mississippi (AFCC) -- Electronic and Installation (E&I) MacDill AFB, Florida (TAC) -- Rapid Deployment Force Kelly AFB, Texas (AFLC) -- Electronic and Installation (E&I)

From these visits, a final task list was developed containing 1,423 tasks organized under 20 duties. The background section in the job inventory included questions about job satisfaction, primary job title, and equipment maintained or used.

Survey Administration

From May 1987 through March 1988, survey control officers at consolidated base personnel offices worldwide administered the inventory booklets to personnel holding Wideband Communications Equipment DAFSCs (304X0). The lengthy administration time was a result of problems encountered in trying to obtain returns from critical bases. Personnel were selected from a mailing list generated from Uniform Airman Record (UAR) data tapes maintained by the Air Force Human Resources Laboratory (AFHRL). Each individual responding to the survey completed an information and background section, then checked each task performed in his or her job. After checking the tasks performed, the respondent then rated each task checked on a 9-point scale indicating relative time spent on that task. Ratings ranged from 1 (very small amount of time spent) through 5 (average amount of time spent) to 9 (very large amount of time spent). To determine relative time spent for each task checked by a respondent, all of the respondent's ratings were assumed to account for 100 percent of his or her time spent on the job. These ratings were then summed, divided by the number of total responses, and the quotient multiplied by 100. This procedure provided a basis for comparing tasks not only in terms of percent members performing, but also in terms of average percent time spent on tasks and groups of tasks.

Survey Sample

All eligible personnel were administered survey booklets. Personnel who had been in their present job at least 6 weeks and not in permanent change of station (PCS) status, retirement, or hospital status were considered eligible for the survey. Table 1 shows the percentage distribution, by major command (MAJCOM), of assigned personnel in the career ladder as of September 1987, while Table 2 shows the percentage distribution by paygrade groups. Representation by MAJCOM and paygrade was good. The 1,833 respondents in the final sample represent 55 percent of assigned AFSC 304X0 personnel.

Task Factor Administration

In addition to completing the job inventory, selected senior Wideband Communications Equipment personnel were also asked to complete a second booklet for either task difficulty (TD) or training emphasis (TE) ratings. TD and TE information are used in a number of different analyses discussed in more detail within this report.

<u>Task Difficulty</u>: Each senior NCO completing a TD booklet was asked to rate each task in the inventory on a 9-point scale from extremely low to extremely high difficulty relative to the other tasks. Difficulty was defined as the length of time required for an average member to learn to perform that task. Interrater reliability between the 57 DAFSC 304X0 raters (as assessed through components of variance of standard group means) is .93, indicating good agreement. TD ratings were adjusted so tasks of average difficulty would have ratings of 5.00 and a standard deviation of 1.00. The resulting data are essentially a rank ordering of tasks indicating the degree of difficulty for each task in the inventory.

<u>Iraining Emphasis</u>: Individuals selected to complete TE booklets were asked to rate all of the tasks on a 10-point scale from 0 (indicating that no training is required), to 9 (indicating that extremely high training emphasis was recommended). Training emphasis is a rating of tasks indicating which areas should receive emphasis in structured training for first-enlistment personnel. Structured training was defined as training provided through resident technical schools, Field Training Detachments (FTD), Mobile Training Teams (MTT), formal on-the-job training (OJT), or any other organized training method. The interrater reliability for the 46 DAFSC 304X0 raters of .88 was acceptable. The average TE rating was 1.68 and the standard deviation was 1.03. Tasks receiving ratings of 2.71 or higher are considered to have relatively high TE.

304X0 MAJCOM DISTRIBUTION (ASSIGNED MANNING AS OF SEPTEMBER 1987)

MAJCOM	PERCENT OF ASSIGNED	PERCENT OF
AF COMMUNICATIONS COMMAND (AFCC)	79	77
TACTICAL AIR COMMAND (TAC)	7	6
USAF EUROPE (USAFE)	6	7
AIR TRAINING COMMAND (ATC)	3	3
PACIFIC AIR COMMAND (PACAF)	2	2
AF ELEMENTS EUROPE (EUR)	1	2
AF ELEMENTS (OTHER)	۱	2
AF SYSTEMS COMMAND (AFSC)	1	1

Total 304X0 Personnel Assigned: 3,324 Total 304X0 Personnel Eligible for Survey: 2,842 Total 304X0 Personnel in Survey Sample: 1,833 Percent of Assigned in Sample: 55% Percent of Eligible in Sample: 64%

NOTE: Personnel projected for PCS, retirement, or discharge; those in hospital status; and those with less than 6 weeks in their present job are not eligible for survey

304X0 PAYGRADE DISTRIBUTION (ASSIGNED MANNING AS OF SEPTEMBER 1987)

PAYGRADE	PERCENT OF ASSIGNED	PERCENT OF SAMPLE
AIRMAN	17	13
E-4	32	33
E-5	29	32
E-6	14	14
E-7	8	7
E-8	*	*

* Denotes less than .5 percent

The computer uses the TD and TE ratings for each task in the inventory, percent of first-enlistment respondents performing, and the Training Decision Logic Table found in ATCR 52-22 to compute an Automated Training Indicator (ATI) value for each task. This ATI, the TD and TE values, as well as percent of various groups of respondents performing can provide insight into the training requirements of a specialty. This may help validate decisions of training personnel to lengthen or shorten specific units of instruction to refine various training programs.

SPECIALTY JOBS (Career Ladder Structure)

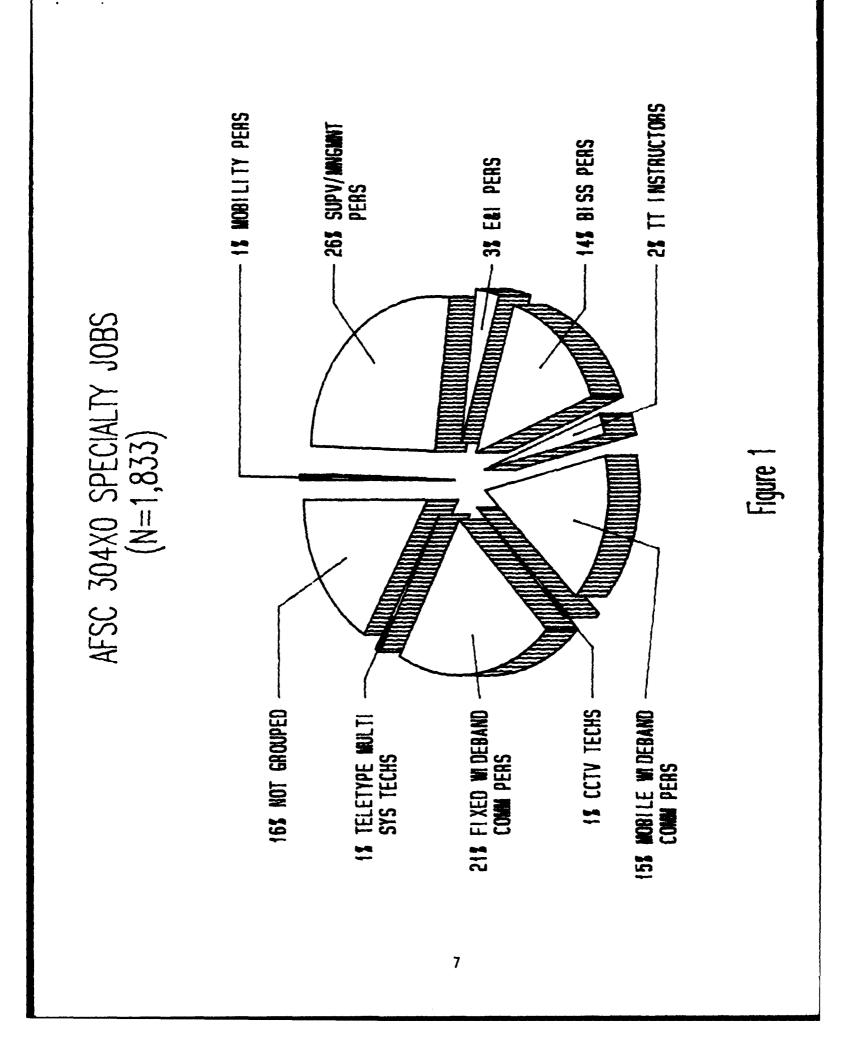
The structure of jobs within the Wideband Communications Equipment career ^jadder was examined on the basis of similarity of tasks performed and the percent time spent ratings provided by job incumbents, independent of background or specialty factors.

For the purpose of organizing individual jobs into similar units of work, an automated job clustering program is used. Each individual job description in the sample is compared to every other job description in terms of tasks performed and the relative amount of time spent on each task in the job inventory. The automated system is designed to locate the two jobs with the most similar tasks and percent time ratings and combine them to form a composite job description. In successive stages, new members are added to initial groups or new groups are formed based on the similarity of tasks and percent of time ratings in each individual job description. This procedure is continued until all individuals and groups are combined to form a single composite representing the total survey sample.

The basic identifying group used in the job structuring process is the <u>job</u>. A job is a group of individuals who perform many of the same tasks and spend similar amounts of time performing them. When there is a substantial degree of similarity between different jobs, they are grouped together and labeled as <u>clusters</u>. In many career ladders, there are specialized jobs that are too dissimilar to be grouped into any cluster. These unique groups are labeled independent jobs.

Overview

An analysis of the tasks performed and time spent on those tasks by the 1,833 respondents resulted in identifying four clusters and five independent jobs within the Wideband Communications Equipment specialty. Figure 1 is a graphic representation of the way these nine groups were organized. The clusters centered around intrusion detection system maintenance, mobile and fixed wideband communications equipment maintenance, and supervisory functions. The five independent jobs centered around training, closed-circuit television



maintenance, teletype multiplexer system maintenance, mobility, and electronic and installation functions. The jobs in the following list are discussed in detail in the following pages.

- I. BASE INTRUSION SECURITY SYSTEM (BISS) PERSONNEL (STG204, N=261)
 - A. BISS Maintenance Supervisors (STG294, N=19)
 - B. Perimeter Security System Technicians (STG565, N=199)
 - C. Structure Security System Technicians (STG422, N=15)
- II. MOBILE WIDEBAND COMMUNICATIONS EQUIPMENT PERSONNEL (STG124, N=283)
 - A. Mobile Tropospheric Radio Technicians (STG218, N=21)
 - B. Mobile Microwave Radio Technicians (STG202, N=256)
- III. FIXED WIDEBAND COMMUNICATIONS EQUIPMENT PERSONNEL (STG?06, N=377)
 - A. Fixed Tropospheric Radio Technicians (STG182, N=45)
 - B. Fixed Microwave Radio Technicians (GRP039, N=214)
 - C. Fixed Radio Voice Frequency Multiplexer Technicians (STG371, N=15)
 - D. Fixed Radio Teletype Multiplexer Technicians (STG244, N=72)
- IV. SUPERVISORY/MANAGEMENT PERSONNEL (STG019, N=482)
 - A. Plans and Requirements Managers (STG194, N=22)
 - B. Maintenance Training Managers (STG240, N=12)
 - C. Quality Control Managers (STG211, N=62)
 - D. Land Mobile Radio Managers (STG156, N=46)
 - E. Job Control Supervisors (GRP038, N=57)
 - F. NCOIC Wideband Communications Equipment (GRP040, N=144)
 - G. Mobility Supervisors (STG302, N=11)
- V. TECHNICAL TRAINING INSTRUCTORS (STG372, N=41)
- VI. CLOSED-CIRCUIT TELEVISION (CCTV) TECHNICIANS (STG138, N=10)
- VII. TELETYPE MULTIPLEXER SYSTEM TECHNICIANS (STG206, N=11)
- VIII. MOBILITY PERSONNEL (STG192, N=10)
 - IX. ELECTRONIC AND INSTALLATION (E&I) PERSONNEL (STG369, N=56)

The above jobs account for 1,531 respondents (84 percent of the sample). The remaining 16 percent did not group with the clusters or independent jobs because of either the unique job they performed, the manner in which they perceived their jobs, or as a result of the diversity of the career ladder. Table 3 provides selected background information, such as DAFSC distribution, average time in career field (TICF), and average number of tasks performed for the various job groups. Table 4 provides data on the relative time spent on each of the 20 duties by personnel in each of the major jobs. Also included in this report are appendices concerning the Wideband Communications Equipment specialty jobs. Appendix A provides background information for all the jobs identified in the career ladder structure analysis, including the jobs within the identified clusters. This appendix also lists tasks commonly performed by each of the jobs identified. Appendix B provides data on relative time spent on each of the duties by personnel within each of these jobs.

Job Descriptions

I. <u>BASE INTRUSION SECURITY SYSTEM (BISS) PERSONNEL CLUSTER (STG204,</u> <u>N=261</u>). The 261 members of this group comprise 14 percent of the survey sample. BISS personnel monitor, troubleshoot, repair, and replace various components of BISS systems, including sensors, relay equipment, closed-circuit televisions (CCTV), and alarm equipment. BISS is used to protect mission critical and high value resources such as strategic/tactical aircraft alert areas, weapons storage sites, and special mission aircraft parking ramps. Fifty-six percent of their job time is spent in BISS functions (see Table 4). Twenty-three percent of this group is located overseas. Tasks most commonly performed include:

> perform preventive maintenance inspections (PMI) on perimeter security systems isolate malfunctions in security system annunciators adjust security system area sensor system components adjust security system annunciator components adjust security system television camera components isolate system malfunctions to coder multiplexer sensor data install coder multiplexer sensor data (CMSD) circuit boards

BISS personnel average 74 months TAFMS, 48 months TICF, and perform an average of 154 tasks.

Three jobs were identified within this cluster. The 19 <u>BISS Maintenance</u> <u>Supervisors (STG294)</u> oversee the day-to-day maintenance of BISS. Thirty-four percent of their job time is spent in BISS maintenance, with another 31 percent of their job time spent in supervisory duties. The second job, <u>Perimeter</u> <u>Security System Technicians (STG565)</u>, with 199 members, performs maintenance associated with BISS television and fence security systems, while the third job, <u>Structure Security System Technicians (STG422)</u>, with 15 members, maintains sensor data systems associated with the BISS.

	BASE INTRUSION SECURITY SYSTEM (BISS) PERSONNEL (STG204)	MOBILE WIDEBAND COMMUNICATIONS EQUIPMENT PERSONNEL (STG124)	FIXED WIDEBAND COMMUNICATIONS EQUIPMENT PERSONNEL (STG106)
NUMBER IN GROUP	261	283	377
PERCENT OF SAMPLE	14%	15%	21%
PERCENT IN CONUS	77%	49%	27%
DAFSC DISTRIBUTION (PERCENT):			
30430 30450 30470	14% 73% 13%	10% 80% 10%	19% 63% 18%
PREDOMINATE PAYGRADES (DESCENDING)	E-4/5/3	E-4/5/3	E-4/5/3
AVERAGE MONTHS IN PRESENT JOB AVERAGE TICF (MOS) AVERAGE TAFMS (MOS) PERCENT IN FIRST ENLISTMENT	21 48 74 36 %	22 58 74 32 %	22 63 40 %
PERCENT SUPERVISING	46%	412	37%
AVERAGE NUMBER OF TASKS PERFORMED	154	184	210

SELECTED BACKGROUND DATA FOR SPECIALTY JOBS

TABLE 3

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TABLE 3 (CONTINUED)

SELECTED BACKGROUND DATA FOR SPECIALTY JOBS

	SUPERVISORY/ MANAGEMENT PERSONNEL (STG019)	TECHNICAL TRAINING INSTRUCTORS (STG372)**	CLOSED-CIRCUIT TELEVISION (CCTV) TECHNICIANS (STG138)**
NUMBER IN GROUP	482	41	10
PERCENT OF SAMPLE	26%	2%	32
PERCENT CONUS	61%	388	80%
DAFSC DISTRIBUTION (PERCENT):			
30430 30450 30470	3% 37% 60%	5% 51% 44%	20% 60% 20%
PREDOMINANT PAYGRADES (DESCENDING)	E-5/6/7	E-5/6/4	E-5/6/4
AVERAGE MONTHS IN PRESENT JOB AVERAGE TICF (MOS) AVERAGE TAFMS (MOS) PERCENT IN FIRST ENLISTMENT	17 119 145 7%	27 99 114 2 %	16 79 106 10 %
PERCENT SUPERVISING	52%	2%	60%
AVERAGE NUMBER OF TASKS PERFORMED	53	17	611

** Independent Job

TABLE 3 (CONTINUED)

SELECTED BACKGROUND DATA FOR SPECIALTY JOBS

	TELETYPE MULTIPLEXER SYSTEM TECHNICIANS (STG206)**	MOBILITY PERSONNEL (STG192)**	ELECTRONIC AND INSTALLATION (E&I) PERSONNEL (STG369)**
NUMBER IN GROUP	F	10	56
PERCENT OF SAMPLE	21	32	38
PERCENT CONUS	28%	80%	73%
DAFSC DISTRIBUTION (PERCENT):			
30430 30450 30470	27% 64% 9%	20% 70% 10%	2% 80% 18%
PREDOMINANT PAYGRADES (DESCENDING)	E-4/3/5	E-5/4/6	E-4/3/5
AVERAGE MONTHS IN PRESENT JOB AVERAGE TICF (MOS) AVERAGE TAFMS (MOS) PERCENT IN FIRST ENLISTMENT	22 35 36 4	14 30 84 20%	27 59 52 %
PERCENT SUPERVISING	36%	50%	29%
AVERAGE NUMBER OF TASKS PERFORMED	63	35	49

** Independent Job

TABLE 4 Relative Percent time spent on Duties by Major Specialty JOBS

D	DUTIES	BASE INTRUSION SECURITY SYSTEM (BISS) PERSONNEL (STG204)	MOBILE WIDEBAND COMMUNICATIONS EQUIPMENT PERSONNEL (STG124)	FIXED WIDEBAND COMMUNICATIONS EQUIPMENT PERSONNEL (STG106)
< 0	UKUANIZING AND PLANNING Didrettwe And Theitic	2	- ,	g
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ыш	PREPARING AND MAINTAINING FORMS, RECORDS, AND	o	7	v
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الد		5	ŝ	- 4
ບ :	EQUIPMENT OPERATION	0	13	13
x ı	SATELLITE OPERATION	13	*	*
ч '	C 5	*	12	13
ں	ANTENNA SYSTEMS	-	11	2
×	MAINTAINING RECEIVERS TO INCLUDE RECEIVE PORTION OF	ſ	1	
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Δ.	MAINTAINING BASE AND INSTALLATION SECURITY SYSTEMS	Ľ	4	•
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	SCOMMON OR MISCELLANE	، ی	ω (18
¥ V	PERFURMING MUBILLIT ANU SUPPUKI FUNCIJUNS Dedendring fiertennir and installation /fei)	_	20	,
•		,	۴-	~
	PERFORMING CLOSED-CIRCUIT TELEVISION (CCTV)		-	
	FUNCTIONS	5	*	*

* Denotes less than .5 percent NOTE: Columns may not add to 100 percent due to rounding

3	DUTIES	SUPERVISORY/ MANAGEMENT PERSONNEL (STG019)	TECHNICAL TRAINING INSTRUCTORS (STG372)**	CLOSED-CIRCUIT TELEVISION (CCTV) TECHNICIANS (STG138)**
٨	ORGANIZING AND PLANNING	18	2	m
8	DIRECTING AND IMPLEMENTING	01	9	2
ပ	INSPECTING AND EVALUATING	14	n	ς Γ
۵ı		12	66	9
L	PREPARING AND MAINIAINING FURMS, RECURDS, AND DEPODTE	06	u	
LL_	PERFORMING SUPPLY FUNCTIONS	01	n m	n ve
J.	EQUIPMENT OPERATION	က		4
X	SATELLITE OPERATION	*	0	0
H	GENERAL MAINTENANCE	ę	2	10
J	ANTENNA SYSTEMS	-	*	0
¥	MAINTAINING RECEIVERS TO INCLUDE RECEIVE PORTION OF	•	•	·
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2 0	MAINTAINING MUUEMO Maintaining race and installation sechety systems	ĸ	K	K
-		~	0	14
0	S COMMON OR MISCELLANE		*	6
~ •	MOBILITY AND SUPPORT	4	-	
2	PERFURMING ELECTRONIC AND INSTALLATION (E&I) FUNCTIONS	-	c	*
⊢	PERFORMING CLOSED-CIRCUIT TELEVISION (CCTV)	-	>	
		*	0	32

TABLE 4 (CONTINUED)

RELATIVE PERCENT TIME SPENT ON DUTIES BY MAJOR SPECIALTY JOBS

14

* Denotes less than .5 percent ** Independent Job NOTE: Columns may not add to 100 percent due to rounding

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RELATIVE PERCENT TIME SPENT ON DUTIES BY MAJOR SPECIALTY JOBS

15

* Denotes less than .5 percent ** Independent Job NOTE: Columns may not add to 100 percent due to rounding II. MOBILE WIDEBAND COMMUNICATIONS EQUIPMENT PERSONNEL CLUSTER (STG124, N=283). Accounting for 15 percent of the total sample, this group spends a large percentage of job time (20 percent) in mobility and support functions. Members of this group also spend significant amounts of time in general maintenance, equipment operations, antenna system maintenance, and receiver maintenance (47 percent, see Table 4). Incumbents are responsible for maintaining mobile radio systems, including antenna assembly and corrosion control. Mobile Wideband Communications Equipment personnel average 184 tasks and are predominately at the 3- and 5-skill levels. Typical tasks performed by the 283 members of this specialty job include:

> perform turn-on procedures assemble parabolic antenna components perform receive signal level (RSL) checks establish wideband links remove camouflage netting remove mobile communication equipment establish orderwire contact with distant terminals

Personnel in this cluster average 58 months TICF and have an average paygrade of E-4.

Two jobs were identified within this cluster. The 21 <u>Mobile Tropospheric</u> <u>Radio Technicians (STG218)</u> maintain tropospheric radio systems at mobile radio sites. Thirty-six percent of their job time is spent in general maintenance and equipment operations. A significant percentage of job time was also spent in antenna system maintenance (16 percent, see Appendix B). The second job, <u>Mobile Microwave Radio Technicians (STG202)</u>, with 256 members, performs maintenance associated with mobile microwave radio systems. This group spends 34 percent of their job time in general maintenance, equipment operations, and antenna maintenance. Unlike Mobile Tropospheric Radio Technicians, members of this group spend a slightly greater amount of time in receiver maintenance and common and miscellaneous subassembly maintenance.

III. FIXED WIDEBAND COMMUNICATIONS EQUIPMENT PERSONNEL CLUSTER (STG106, N=377). Comprised of four different jobs and representing 21 percent of the total sample (377 members), this cluster maintains fixed wideband radio systems. The job performed is highly technical, with 86 percent of their relative job time devoted to performing tasks involving general maintenance, equipment operation, or maintenance on receivers, transceivers, antennas, or common and miscellaneous subassemblies. Examples of tasks performed by members of this group include:

> perform RSL checks perform test tone level tests perform frequency modulation (FM) quieting curves adjust automatic gain control (AGC) components

remove electromechanical components using soldering methods perform PMI on FM receivers align frequency division multiplexers

The cluster is dominated by 3- and 5-skill level personnel (82 percent), with an average paygrade of E-4. Members average 79 months TAFMS and 63 months TICF.

The first job to be identified within this cluster was Fixed Tropospheric Radio Technicians (STG182). Unlike Mobile Tropospheric Radio Technicians. members of this group are assigned to fixed radio sites, and perform almost twice the number of tasks as do their mobile counterparts (103 versus 59). This group also spends a greater amount of time maintaining receivers. Fixed Microwave Radio Technicians (GRP039), with 214 members, comprise 21 percent of the survey sample, and maintain fixed microwave radio systems. This job differs from Mobile Microwave Radio Technicians in time spent maintaining antennas, receivers, transmitters, and voice frequency multiplexers. <u>Fixed Radio</u> Voice Frequency Multiplexer Technicians (STG371), was the third job identified. These 15 members maintain voice frequency multiplexer components on fixed wideband communications equipment. Eighteen percent of job time for this group is spent maintaining voice frequency multiplexers and associated interface equipment. Another 49 percent is spent in equipment operations, general maintenance, and maintenance of receivers and transmitters. The final job identified within this cluster is that of Fixed Radio Teletype Multiplexer Technicians (STG244). Maintenance of fixed radio teletype multiplexer components is the distinguishing feature of this group from other fixed wideband job groups, with 18 percent of their total job time spent in teletype multiplexer and associated interface equipment maintenance.

IV. <u>SUPERVISORY/MANAGEMENT</u> <u>PERSONNEL</u> <u>CLUSTER</u> (STG019, <u>N=482</u>). This cluster, representing approximately 26 percent of the sample, is comprised of individuals who perform a large number of supervisory and planning functions. Forming seven jobs, the personnel in this cluster spend little time on the technical work of the career ladder. Fifty-four percent of their job time is spent in supervisory duties (A-D) with another 30 percent spent in administrative and supply areas. Some of the most representative tasks of this group are:

write correspondence determine work priorities prepare APR evaluate compliance with performance standards develop work procedures establish office instructions (OI) conduct OJT plan work assignments Supervisors average 145 months TAFMS, 119 months TICF, and 53 tasks performed.

The first group of 22 Plans and Requirements Managers (STG194) serve in Their job centers staff positions, primarily at the headquarters level. around determining the future needs of the career ladder and managing the day-to-day contracts. Sixty-eight percent of their job time is spent in supervisory duties, with another 26 percent in administrative and supply areas. <u>Maintenance Training Managers (STG240)</u> was the second job identified. Responsible for overseeing on-the-job (OJT) training programs and determining other training requirements, the 12 members of this group spend over 40 percent of their job time in training duties. Quality Control Managers (STG211), with 62 members, distinguish themselves from the other Supervisory/Management personnel by the predominance of inspection and evaluation tasks performed. accounting for 30 percent of their job time. The primary duty of this job is to serve as technical advisor to the maintenance complex and assist the maintenance supervisors in identifying and resolving problems. The 46 Land Mobile Radio Managers (STG156) maintain mobile hand-held radios, and spend the majority of their job time in supply-related functions (31 percent). Unlike other jobs identified within this cluster, Job Control Supervisors (GRP038), with 57 members, are predominately 3- and 5-skill level (77 percent). This group coordinates the daily maintenance plan, ensuring the workcenters get the jobs done, and controls unscheduled maintenance by taking trouble calls, assigning job control numbers to them and then notifying the workcenters. The sixth job identified, NCOIC Wideband Communications Equipment (GRP040), consisting of 144 senior personnel, spends 55 percent of their job time in supervisory duties. Members of this aroup tend to be first-line supervisors, spending 26 percent of their job time in technical areas. Mobility Supervisors (STG302) comprise the last job in this cluster. Supervision of mobility teams and mobile radio sites is the primary job for the 11 members of this group. Twenty-nine percent of their job time is spent in mobility functions.

V. <u>TECHNICAL TRAINING INSTRUCTORS</u> (STG372, N=41). Accounting for only 2 percent of the total sample, members of this independent job spend the majority of their job time (66 percent) in training functions. Technical Training Instructors are responsible for the instruction and technical training, to include counseling, evaluation, and classroom and laboratory training, provided to entry-level personnel. Some of the most representative tasks performed by the 41 members of this specialty job include:

> score tests conduct resident course classroom training evaluate progress of students counsel personnel maintain training records, charts, and graphs conduct remedial training perform receive signal level (RSL) checks determine resident course training requirements

Technical Training Instructors average 17 tasks, and 114 months TAFMS.

VI. <u>CLOSED-CIRCUIT TELEVISION (CCTV)</u> <u>TECHNICIANS</u> (STG138, N=10). This independent job is similar to the BISS Personnel cluster described previously, in that closed-circuit televisions (CCTV) are part of BISS and maintained by both. The distinguishing factor is that, for this group, the majority of their job time is spent on CCTV maintenance (32 percent), while only 14 percent of job time is spent in BISS functions (see Table 4). Typical tasks performed by this group are:

functionally test video display monitors adjust video circuits isolate camera faults align camera circuits test receive equalizers adjust balanced line matching amplifiers adjust security system television camera components

This group of predominately senior personnel averages 116 months TAFMS and 119 tasks performed.

VII. <u>TELETYPE</u> <u>MULTIPLEXER</u> <u>SYSTEM</u> <u>TECHNICIANS</u> (STG206, N=11). Although teletype multiplexer systems are a component of wideband systems, this group of 11 concentrates over 39 percent of their job time solely in the maintenance of teletype multiplexer systems. This is twice the amount of time their counterparts, Fixed Radio Teletype Multiplexer Technicians, spend performing the same type of maintenance (see discussion on Fixed Wideband Communications Equipment Personnel, described earlier). Representative tasks performed include:

> adjust frequency shift converter components replace frequency shift converters replace frequency shift keyers isolate malfunctions in frequency shift converters repair malfunctions in frequency shift converters adjust loop current control panel components

This group averages 63 tasks performed, and 64 months TAFMS.

VIII. <u>MOBILITY PERSONNEL (STG192, N=10)</u>. The 10 members of this independent job spend 47 percent of their total job time in mobility-related functions. Incumbents do not perform the routine maintenance functions associated with this AFSC, but instead concentrate on the installation and removal of various types of mobile or transportable radio equipment and antennas. Tasks common to this job include:

camouflage equipment anchor equipment vans and shelters construct facilities to support field activities inspect waveguides remove mobile communication equipment disassemble feedhorn assembly components layout power cables

Mobility personnel average 84 months TAFMS and perform an average of 35 tasks.

IX. <u>ELECTRONIC AND INSTALLATION (E&I) PERSONNEL (STG369, N=56)</u>. With performance of electronic and installation functions accounting for 69 percent of their job time, the 56 members of this job are responsible for the installation, electronic wiring of, and initial testing of wideband communication equipment worldwide. Primarily junior personnel, 27 percent are located overseas. Representative tasks performed include:

perform installation functions using power tools install communication/electronic equipment using drawings and sketches perform on-site E&I procedures install cross connections form and fan communication/electronic equipment cables lace cable assemblies install intermediate distribution frames (IDF)

This group averages 74 months TAFMS and performs an average of 49 tasks.

Summary 🔅

Four clusters (including 16 jobs) and five independent jobs were identified in the career ladder structure analysis. The clusters were directly involved with functions associated with maintenance of intrusion detection systems, microwave and fixed radio systems, and supervisory or managerial functions. The independent jobs were directly involved with training, electronic and installation functions, mobility, and maintenance of closed-circuit televisions and teletype multiplexer systems. These nine groups, combined, present a clear picture of the Wideband Communications Equipment Specialty.

ANALYSIS OF DAFSC GROUPS

DAFSC analysis identifies similarities and differences in task and duty performance at the various skill levels. This information may then be used to evaluate how well career ladder documents, such as AFR 39-1 Specialty Descriptions and the STS, reflect what career ladder personnel are actually doing in the field.

Comparison of the duty and task performance between DAFSCs 30430 and 30450 indicated that, while there are some minor differences, the jobs they perform are essentially the same, as evidenced by the fact that there is an 80 percent similarity in the tasks they perform. Therefore, they will be discussed as a combined group in this report. Survey data, if desired, will also be available for each separate skill level.

The distribution of skill-level groups across major specialty jobs is shown in Table 5, while Table 6 shows the relative time spent on each duty across the two skill-level groups being discussed.

The AFSC 304X0 career ladder shows a typical career progression pattern seen in most mission equipment maintenance specialties as one advances from the 3-skill level through the 7-skill level. As shown in Table 6, AFSC 30430/50 personnel are spending the majority of their job time on technical tasks, while 43 percent of the AFSC 30470 job incumbent's time is spent on the supervisory duties A-D (see Table 6). Table 7 presents representative tasks of ard differences across skill-level groups, while Tables 8 and 9, respectively, present job descriptions for the AFSC 30430/50 and 30470 skill levels.

Skill Level Descriptions

DAFSC 30430/50: As in most career ladders, the job performed by 3- and 5-skill level respondents is largely technical in nature. The 1,319 airmen in the 3- and 5-skill level group (representing 72 percent of the survey sample) perform an average of 142 tasks, with 271 of the total 1,423 survey tasks accounting for 55 percent of their job time. Twelve percent of their job time is spent in BISS-related tasks, ll percent in general maintenance, and 23 percent in specialized maintenance (see Table 6). The average TICF is 51 months, with an average TAFMS of 69 months. Forty-two percent of this group work as Fixed or Mobile Wideband Communications Equipment Personnel (see Table 5).

DAFSC 30470: Seven-skill level personnel comprise 28 percent of the survey sample. This group averages 136 months TICF, 165 months TAFMS, and performs an average of 120 tasks. Most 7-skill level personnel work as Supervisors (56 percent) or Fixed Wideband Communications Equipment personnel (13 percent, see Table 5). Like many other career ladders, supervisory tasks account for a large percentage of job time at the 7-skill level (43 percent, see Table 6). This trend is supported by Table 9, where tasks performed by the highest percentages of 7-skill level personnel are primarily supervisory in nature.

DISTRIBUTION OF 304X0 DAFSC GROUP MEMBERS ACROSS MAJOR SPECIALTY JOBS (PERCENT RESPONDING)

MAJOR	SPECIALTY JOBS		C 0/50 ,319)	DAFS 3047 (N=5	0
		Nmbr	Pct	Nmbr	Pct
Ι.	BASE INTRUSION SECURITY SYSTEM (BISS) PERSONNEL (N=261)	227	17%	34	7%
II.	MOBILE WIDEBAND COMMUNICATIONS EQUIPMENT PERSONNEL (N=283)	254	19%	28	5%
III.	FIXED WIDEBAND COMMUNICATIONS EQUIPMENT PERSONNEL (N=377)	309	23%	68	13%
IV.	SUPERVISORY/MANAGEMENT PERSONNEL (N=483)	193	15%	289	56%
۷.	TECHNICAL TRAINING INSTRUCTORS (N=41)**	23	2%	18	4%
VI.	CLOSED-CIRCUIT TELEVISION (CCTV) TECHNICIANS (N=10)**	8	۱%	2	*
VII.	TELETYPE MULTIPLEXER SYSTEM TECHNICIANS (N=11)**	10	1%	1	*
VIII.	MOBILITY PERSONNEL (N=10)**	9	1%	ו	*
IX.	ELECTRONIC AND INSTALLATION (E&I) PERSONNEL (N=56)**	46	3%	10	2%
Χ.	PERCENT NOT GROUPED (N=310)	240	18%	62	12%

* Denotes less than .5 percent ** Independent Job NOTE: Columns may not add to 100 percent due to rounding

RELATIVE PERCENT TIME SPENT ON DUTIES BY 304X0 DAFSC GROUPS

DU	TIES	DAFSC 30430/50 (N=1,319)	DAFSC 30470 (N=513)
A	ORGANIZING AND PLANNING	4	12
В	DIRECTING AND IMPLEMENTING	2	8
C	INSPECTING AND EVALUATING	2 2 5	12
D	TRAINING	5	11
Ε	PREPARING AND MAINTAINING FORMS, RECORDS, AND		
	REPORTS	6	11
F	PERFORMING SUPPLY FUNCTIONS	5 9 *	6
G	PERFORMING EQUIPMENT OPERATION FUNCTIONS	9	5
Н	PERFORMING SATELLITE OPERATION FUNCTIONS		*
I	PERFORMING GENERAL MAINTENANCE FUNCTIONS	11	6 2
J	MAINTAINING ANTENNA SYSTEMS	3	2
K	MAINTAINING RECEIVERS TO INCLUDE RECEIVE	_	_
	PORTION OF TRANSCEIVERS	7	4
L	MAINTAINING TRANSMITTERS TO INCLUDE	_	•
	TRANSMITTER PORTION OF TRANSCEIVERS	5	3
М	MAINTAINING VOICE FREQUENCY MULTIPLEXERS AND	_	•
	ASSOCIATED INTERFACE EQUIPMENT	5	2
N	MAINTAINING TELETYPE MULTIPLEXERS AND	•	,
_	ASSOCIATED INTERFACE EQUIPMENT	3	1
0	MAINTAINING MODEMS	×	*
Ρ	MAINTAINING BASE AND INSTALLATION SECURITY	10	
-	SYSTEMS (BISS)	12	4
Q	MAINTAINING COMMON OR MISCELLANEOUS	•	-
~	SUBASSEMBLIES	9 7	5 4
R	PERFORMING MOBILITY AND SUPPORT FUNCTIONS	/	4
S	PERFORMING ELECTRONIC AND INSTALLATION (E&I)	4	3
-	FUNCTIONS	4	5
1	PERFORMING CLOSED-CIRCUIT TELEVISION (CCTV)	1	٦
	FUNCTIONS	ſ	1

* Denotes less than .5 percent NOTE: Columns may not add to 100 percent due to rounding

	DIFFERENCE	+33	+26 +23	+23 +21	6[+ * * * * * * *	- 18 - 19 - 20 - 20 - 20
	DAFSC 30470 (N=513)	31	24 36	36 29	27 * * * * * * *	33 24 35 35 8 35 8 35 8 35 8 35 8 35 8 37 34 33 34 34 33 35 8 35 8 35 8 35 8 37 34 8 33 33 33 34 8 33 34 8 33 34 8 33 33 33 33 33 33 33 33 33 33 33 33 3
R 304X0 DAFSC GROUPS IMEEN THE GROUPS PERFORMING)	DAFSC 30430/ 30450 (N=1,319)	64	50 59	59 50	46 * * * * * *	15 15 8 8
REPRESENTATIVE TASKS FOR 304X0 DAFSC GROUPS WITH DIFFERENCES BETWEEN THE GROUPS (PERCENT MEMBERS PERFORMING)	TASKS	1222 PERFORM CORROSION CONTROL 1230 DEMOVE ELECTROMECHANICAL COMPONENTS LISING SOLDERING		PERFORM TURN-OFF PROCEDURES PERFORM RECEIVE SIGNAL LEVEL (IZ34 REMUVE ELECIKUNIC CUMPUNENIS, UINEK INAN PILCKU- MINIATURE COMPONENTS, USING SOLDERING METHODS * * * * * * * * * * * * * * * * * * *	 130 MAINTAIN OFFICE SUPPLIES 77 DETERMINE OJT TRAINING REC 7 DRAFT BUDGET REQUIREMENTS 53 EVALUATE PROCEDURES FOR SI 103 PREPARE SUPPLY JUSTIFICATI 113 PREPARE SUPPLY JUSTIFICATI 14 ESTABLISH STANDARD OPERATI

REPRESENTATIVE TASKS PERFORMED BY AFSC 30430/30450 SKILL LEVEL PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING
1222	PERFORM CORROSION CONTROL	64
G189	PERFORM TURN-ON PROCEDURES	59
G188	PERFORM TURN-OFF PROCEDURES	59
F136	PREPARE REPARABLE ITEMS FOR TURN-IN	50
1230	REMOVE ELECTROMECHANICAL COMPONENTS USING SOLDERING METHODS PERFORM RECEIVE SIGNAL LEVEL (RSL) CHECKS PREPARE NONREPARABLE ITEMS FOR TURN-IN MAKE ENTRIES ON MAINTENANCE FORMS CONDUCT OJT DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL	
	METHODS	50
G182	PERFORM RECEIVE SIGNAL LEVEL (RSL) CHECKS	50
F135	PREPARE NONREPARABLE ITEMS FOR TURN-IN	49
E 102	MAKE ENTRIES ON MAINTENANCE FORMS	47
E 102 D73 D74	CONDUCT OJT	46
D74	DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL	
		40
• • • • •	PERFORM TEST TONE LEVEL TESTS	46
1234		
	COMPONENTS, USING SOLDERING METHODS	46
G156	OBSERVE TEST EQUIPMENT, SUCH AS SCOPES AND SIGNAL ANALYZERS, TO DETERMINE EQUIPMENT OPERATION	
	ANALYZERS, TO DETERMINE EQUIPMENT OPERATION	44
1242	REPAIR CABLE ASSEMBLIES	44
1249		
	COMPONENTS, USING SOLDERING METHODS	43
D85		42
R12 99		
	PASSENGER VEHICLES	41
1258	UNPACK COMPONENTS AND MODULES	41
G190	PERFORM FREQUENCY MODULATION (FM) QUIETING CURVES	41
1240	UNPACK COMPONENTS AND MODULES PERFORM FREQUENCY MODULATION (FM) QUIETING CURVES REMOVE MOUNTING HARDWARE	41
1255	REPLACE MOUNTING HARDWARE	41
G105	REMOVE MOUNTING HARDWARE REPLACE MOUNTING HARDWARE PERFORM CIRCUIT FAULT ISOLATION PROCEDURES UNPACK TEST EQUIPMENT	41 40
		40
6150	ESTABLISH ORDERWIRE CONTACT WITH DISTANT TERMINALS	40

REPRESENTATIVE TASKS PERFORMED BY AFSC 30470 SKILL LEVEL PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING
B41	WRITE CORRESPONDENCE	76
B29	COUNSEL PERSONNEL	66
A4	DETERMINE WORK PRIORITIES	64
C60	PREPARE APR	60
D85 D74	WRITE CORRESPONDENCE COUNSEL PERSONNEL DETERMINE WORK PRIORITIES PREPARE APR MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL INFORMATION EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS DEVELOP WORK PROCEDURES PLAN WORK ASSIGNMENTS CONDUCT OJT	56
	INFORMATION	54
C47	EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS	53
A6	DEVELOP WORK PROCEDURES	51
A20	PLAN WORK ASSIGNMENTS	50
D73	CONDUCT OJT	49
C45	EVALUATE CAPABILITY OF EQUIPMENT	49
E92	MAINTAIN CORRESPONDENCE FILES	49
F139	REVIEW TABLE OF ALLOWANCES (TA)	48
A3	DETERMINE REQUIREMENTS FOR SPACE, PERSONNEL, EQUIPMENT,	
	AND SUPPLIES	48
C51	EVALUATE INSPECTION REPORTS	48
	PREPARE IN-HOUSE DOCUMENTS, SUCH AS CHECKLISTS	46
E91		
	DIRECTIVES	45
F138	RESEARCH SUPPLY CATALOGS	45
A25	SCHEDULE LEAVES	44
D79	DEVELOP TRAINING PLANS	44
A12	ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES	42
001	DIDECT MAINTENANCE CDEU ACTIVITIES	41
F137	PREPARE REQUISITIONS FOR PARTS, TOOLS, AND SUPPLIES	41
A16	PLAN BRIEFINGS	40
	ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL	40
A1	ASSIGN PERSONNEL TO DUTY POSITIONS	39
C58	INDORSE AIRMAN PERFORMANCE REPORTS (APR)	39
	EVALUATE TRAINING METHODS	38

Summary

Career ladder progression in this specialty is typical of most mission equipment maintenance career ladders through all skill levels. As one progresses from the 3- to the 5-skill level, technical tasks account for a large proportion of job time. At the 7-skill level, percent time spent in managerial areas increases significantly. Representation of skill levels across specialty jobs shows the majority performing as either Supervisors or Fixed or Mobile Wideband Communications Equipment personnel.

ANALYSIS OF AFR 39-1 SPECIALTY DESCRIPTIONS

The results of the skill level and job structure analyses were compared with the AFR 39-1 Specialty Descriptions, dated 1 February 1988, for the Wideband Communications Equipment Specialty. The descriptions in AFR 39-1 describe in broad terms the tasks and duties performed by members of the various skill-level groups of a career ladder. There are two descriptions applicable to this study. One describes the jobs of AFSCs 30410, 30430, and 30450; the second describes the jobs of AFSC 30470.

The descriptions for the 3-, 5-, and 7-skill levels were well supported by the findings of this survey. The descriptions depict the highly technical aspect of the job, as well as the increase in supervisory responsibilities previously described in the DAFSC analysis. The descriptions also capture the primary responsibilities of members of all of the nine major jobs identified by the job structure analysis process.

JOB SATISFACTION

An important part of analysis within any OSR involves the job satisfaction of members and how their responses compare with the responses of members of similar Air Force specialties. Reported job interest, perceived utilization of talents and training, satisfaction with sense of accomplishment gained from jobs, and expressed reenlistment intentions for the AFSC 304X0 specialty jobs are presented in Table 10. Table 11 presents the job satisfaction data for the AFSC 304X0 respondents, broken down into three groups (firstenlistment, second-enlistment, and career). A comparative sample of mission equipment maintenance personnel surveyed by the USAF Occupational Measurement Center during 1987 also appear in Table 11. These career fields included AFSCs 303X1, 303X3, 304X6, 321X1, 427X0, 427X2, and 427X3.

The responses of members in most jobs were generally positive. Most indicated effective use of talents and training. No one particular group perceived their jobs as being least satisfying, although <u>Teletype Multiplexer</u> <u>System Technicians and Mobility Personnel</u> found their jobs the least interesting of all the jobs identified, and <u>E&I Personnel</u> expressed the least

JOB SATISFACTION INDICATORS BY MAJOR SPECIALTY JOBS (PERCENT MEMBERS RESPONDING)

- .

	BASE INTRUSION SECURITY SYSTEM (BISS) PERSONNEL (STG204)	MOBILE WIDEBAND COMM EQUIPMENT PERSONNEL (STG124)	FIXED WIDEBAND COMM EQUIPMENT PERSONNEL (STG106)
EXPRESSED JOB INTEREST:			
INTERESTING SO-SO DULL	72 17 11	71 91 9	81 21 7
PERCEIVED USE OF TALENTS:			
FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	78 21	16 84	84 15
PERCEIVED USE OF TRAINING:			
FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	54 45	82 18	90 10
SENSE OF ACCOMPLISHMENT FROM WORK:			
SATISFIED NEUTRAL DISSATISFIED	66 14 20	60 14 26	74 11 15
REENLISTMENT INTENTIONS:			
WILL/PROBABLY WILL REENLIST WILL NOT/PROBABLY WILL NOT REENLIST WILL RETIRE	60 37 3	66 33 1	3 3 3 3

* Columns may not add to 100 percent due to nonresponse and rounding

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JOB SATISFACTION INDICATORS BY MAJOR SPECIALTY JOBS (PERCENT MEMBERS RESPONDING)

CLOSED-CIRCUIT TELEVISION (CCTV) TECHNICIANS (STG138)**	60	30 10	80 20	5	60 40	ç	30 00		00 0 0
TECHNICAL TRAINING INSTRUCTORS (STG372)**	73	71 7	76 22	ç	73 15	ç T	27 77		83 15
SUPERVISORY/ MANAGEMENT PERSONNEL (STG019)	74	12	73 27	ł	55 45	ţ	53 11 23		60 22 17
	EXPRESSED JOB INTEREST: INTERESTING	SO-SO DULL PERCEIVED USE OF TALENTS:	FAIRLY WELL TO PERFECTLY Little or Not at ALL	PERCEIVED USE OF TRAINING:	FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	SENSE OF ACCOMPLISHMENT FROM WORK:	SALISFIED NEUTRAL DISSATISFIED	REENLISTMENT INTENTIONS:	WILL/PROBABLY WILL REENLIST WILL NOT/PROBABLY WILL NOT REENLIST WILL RETIRE

* Columns may not add to 100 percent due to nonresponse and rounding ** Independent Job

TABLE 10 (CONTINUED)

JOB SATISFACTION INDICATORS BY MAJOR SPECIALTY JOBS (PERCENT MEMBERS RESPONDING)

	TELETYPE MULTIPLEXER SYSTEM TECHNICIANS (STG206)**	MOBILITY PERSONNEL (STG192)**	ELECTRONIC AND INSTALLATION (E&I) PERSONNEL (STG369)**
EXPRESSED JOB INTEREST:			
INTERESTING SO-SO DULL	45 45 9	50 40 10	75 14 11
PERCEIVED USE OF TALENTS:			
FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	82 18	90 01	77 23
PERCEIVED USE OF TRAINING:			
FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	64 36	60 40	4 1 59
SENSE OF ACCOMPLISHMENT FROM WORK:			
SATISFIED NEUTRAL DISSATISFIED	4 5 27 27	60 40 0	68 14 18
REENLISTMENT INTENTIONS:			
WILL/PROBABLY WILL REENLIST WILL NOT/PROBABLY WILL NOT REENLIST WILL RETIRE	55 45 0	70 30 0	50 46 6

* Columns may not add to 100 percent due to nonresponse and rounding ** Independent Job

COMPARISON OF TAFMS GROUP JOB SATISFACTION INDICATORS (PERCENT MEMBERS RESPONDING)

	1-48	1-48 MOS TAFMS	49-96	49-96 MOS TAFMS	+26	97+ MOS TAFMS
	304X0 (N=498)	1987 COMP SAMPLE (N=2,187)	304X0 (N=591)	1987 COMP SAMPLE (N=994)	304X0 (N=744)	1987 COMP SAMPLE (N=1,613)
EXPRESSED JOB INTEREST: INTERESTING SO-SO DULL	73 17 9	72 17 11	71 16 13	73 14 12	73 15 11	78 14 8
PERCEIVED USE OF TALENTS: FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	77 22	78 22	78 22	78 22	78 22	82 17
PERCEIVED USE OF TRAINING: FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	68 31	83 17	64 35	81 19	68 32	79 20
SENSE OF ACCOMPLISHMENT FROM WORK: SATISFIED NEUTRAL DISSATISFIED	68 11 20	70 13	63 14 23	69 11 20	66 12 22	17 01 91
REENLISTMENT INTENTIONS: WILL/PROBABLY WILL REENLIST WILL NOT/PROBABLY WILL NOT REENLIST WILL RETIRE	55 0	57 43 0	0 36 0	67 31 1	69 15 15	73 10 16
	,					

* Columns may not add to 100 percent due to nonresponse and rounding ** Comparative Sample is composed of all mission equipment maintenance career ladders surveyed in 1987 (includes AFSCs 303X1, 303X3, 304X6, 321X1, 427X0, 427X2, and 427X3)

likelihood to reenlist. Overall, personnel across all career ladder jobs are satisfied with their jobs, feel their talents and training are adequately utilized, and gain some sense of accomplishment from their work.

In a comparative study of experience groups of the AFSC 304X0 career ladder and mission equipment maintenance personnel surveyed by OMC in 1987, data indicate that AFSC 304X0 personnel are slightly lower across most job satisfaction indicators (see Table 11). The biggest difference is in perceptions of the use of training, where AFSC 304X0 1-48 months TAFMS groups and 49-96 months TAFMS groups show a much lower satisfaction than the comparative sample (see Table 11).

In a 1981 survey of the AFSC 304X0 career ladder, job satisfaction was seen to be slightly lower in comparison with the current survey (see Table 12). The biggest difference is noted in figures for reenlistment intentions, where the percent planning to reenlist was substantially higher for the 1987 sample (63 percent) than for the 1981 sample (45 percent). The 1981 sample did show a higher perception of training use than did the 1988 sample (72 percent versus 67 percent).

COMPARISON TO PREVIOUS SURVEY

The results of this survey were compared to those of the previous Occupational Survey Report AFPT 90-304-422, dated November 1981, for the AFSC 304X0 career ladder. Wideband Communications Equipment (AFSC 304X0), Ground Radio Communications (AFSC 304X4), and the Space Systems Equipment (AFSC 304X6) specialties were surveyed together. For purposes of comparison, only those jobs related to Wideband Communications Equipment will be considered.

The identified career ladder structure for the AFSC 304X0 career ladder in the present survey was similar to that of 1981, indicating the types of jobs which existed in 1981 have remained relatively unchanged through the years. In both analyses, Supervisory, Electronic and Installation, BISS, Technical Training Instructors, and Mobility jobs were identified. The current analysis, however, shows a more diverse career ladder structure, with the identification of Closed-Circuit Television Technicians and Teletype Multiplexer System Technicians. In the 1981 survey, Microwave Radio systems were described as part of the Radio Relay Maintenance job cluster. The current analysis has identified Tropospheric Radio Maintenance as well as Microwave Radio Maintenance, and has broken these two types of maintenance into four distinct jobs: Mobile and Fixed Tropospheric Radio Technicians, and Mobile and Fixed Microwave Radio Technicians. Job satisfaction was seen to be slightly higher for the current survey sample than that of 1981.

COMPARISON OF JOB SATISFACTION DATA (PERCENT MEMBERS RESPONDING)

	1-48 M	1-48 MOS TAFMS	49-96	49-96 MOS TAFMS	97+ M	97+ MOS TAFMS
	1988	1981	1988	1981	1988	1981
	(N=498)	(N=495)	(N=591)	(N=147)	(N=744)	(N=352)
EXPRESSED JOB INTEREST:						
INTERESTING	73	65	71	60	73	72
SO-SO	17	17	16	19	15	14
DULL	9	17	13	20	11	13
PERCEIVED USE OF TALENTS:						
FAIRLY WELL TO PERFECTLY	77	71	78	74	78	79
LITTLE OR NOT AT ALL	22	29	22	26	22	21
PERCEIVED USE OF TRAINING:						
FAIRLY WELL TO PERFECTLY	68	66	64	67	68	75
LITTLE OR NOT AT ALL	31	34	35	33	32	24
SENSE OF ACCOMPLISHMENT FROM WORK:						
SATISFIED	68	58	63	57	66	65
NEUTRAL	11	15	14	11	12	11
DISSATISFIED	20	28	23	32	22	26
REENLISTMENT INTENTIONS:						
WILL/PROBABLY WILL REENLIST	55	34	63	42	69	57
WILL NOT/PROBABLY WILL NOT REENLIST	44	22	36	35	15	13
WILL RETIRE	0	22	0	22	15	30

* Columns may not add to 100 percent due to nonresponse and rounding

TRAINING ANALYSIS

Occupational survey data provide several sources of information which can be used to make training programs more relevant and meaningful to students. The three most commonly used types of occupational survey information are the percent of first-enlistment personnel performing tasks covered in the job inventory, ratings of relative difficulty of tasks, and the ratings of relative emphasis which should be placed on tasks for first-enlistment training. These data can be used in evaluating training documents such as the STS and the POI.

First-Enlistment Personnel

First-enlistment personnel account for 27 percent of the survey sample. This group averages 30 months TICF, 33 months TAFMS, and performs an average of 144 tasks.

Analysis of tasks performed by first-enlistment respondents generally is useful to training personnel. Table 13 presents the relative percent time spent on duties by first-enlistment Wideband Communications Equipment personnel, while Table 14 contains examples of tasks performed by these personnel. Most of the tasks involved general maintenance or equipment operations. This is consistent with previous findings that these duties account for a substantial percent of job time for 3- and 5-skill level personnel (20 percent). Figure 2 reflects the distribution of first-enlistment respondents across Over 31 percent of the 1-48 months TAFMS respondents career ladder jobs. grouped with the Fixed Wideband Communications Equipment personnel cluster. indicating that most first-term airmen are assigned to this particular area. Within this cluster, it is seen that 52 percent of first-enlistment personnel are Fixed Microwave Radio Technicians and another 26 percent are Fixed Radio Therefore, maintenance on Fixed Wideband Teletype Multiplexer Technicians. Communication Equipment systems should receive a substantial degree of emphasis during first-enlistment training. Eighteen percent of first-enlistment personnel did not group with any of the identified jobs because of the way in which they answered the survey, perceived their jobs, or as a function of the diversity of the career ladder.

One area of analysis that is useful to training personnel is the type of equipment maintained or operated by various first-enlistment personnel. This analysis can be useful in determining what types of equipment to train students on in technical school or as part of OJT. Table 15 presents the various types of equipment maintained by AFSC 304X0 personnel and the percent members responding. Analysis shows the majority of first-enlistment personnel maintaining BISS equipment or the AN/TRC-97A Super High Frequency (SHF) Transceiver.

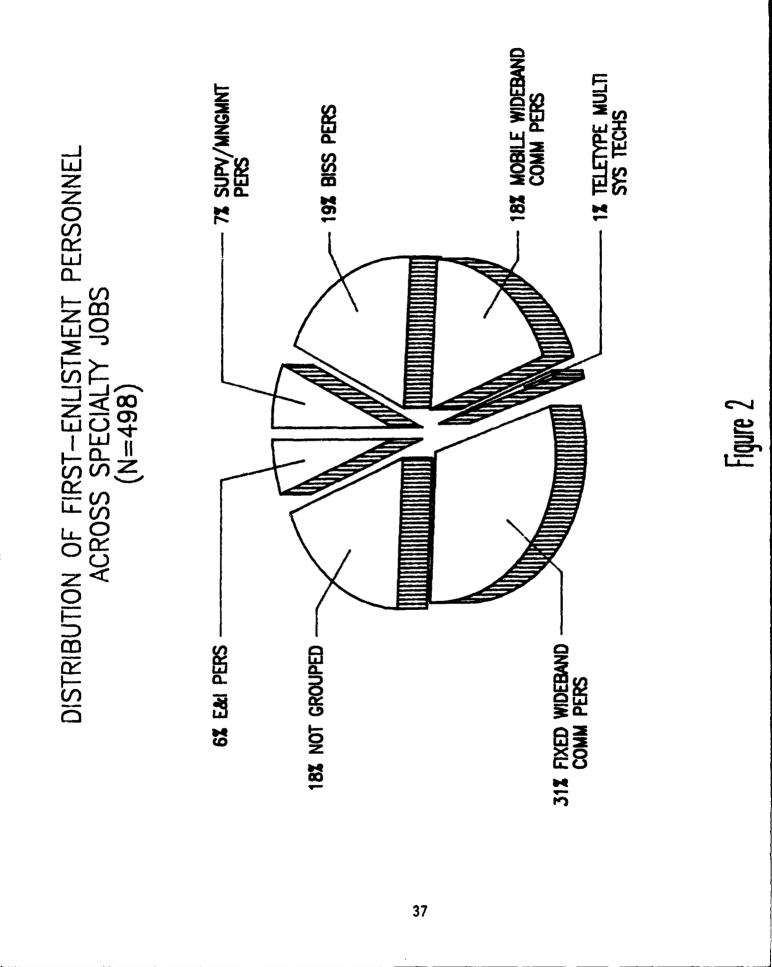
RELATIVE PERCENT TIME SPENT ON DUTIES BY AFSC 304X0 FIRST-ENLISTMENT PERSONNEL

DU	ITIES	PERCENT TIME SPENT
A	ORGANIZING AND PLANNING	2
B	DIRECTING AND IMPLEMENTING	1
Ċ	INSPECTING AND EVALUATING	1
D	TRAINING	3 4 4
Ε	PREPARING AND MAINTAINING FORMS, RECORDS, AND REPORTS	4
F	PERFORMING SUPPLY FUNCTIONS	
G	PERFORMING EQUIPMENT OPERATION FUNCTIONS	11
Н	PERFORMING SATELLITE OPERATION FUNCTIONS	*
I	PERFORMING GENERAL MAINTENANCE FUNCTIONS	13
J	MAINTAINING ANTENNA SYSTEMS	3
Κ	MAINTAINING RECEIVERS TO INCLUDE RECEIVE PORTION OF	_
	TRANSCEIVERS	7
L	MAINTAINING TRANSMITTERS TO INCLUDE TRANSMITTER PORTION OF	_
	TRANSCEIVERS	5
M		<i>c</i>
	INTERFACE EQUIPMENT	6
N	MAINTAINING TELETYPE MULTIPLEXERS AND ASSOCIATED INTERFACE	3
~	EQUIPMENT	с *
0	MAINTAINING MODEMS	14
P	MAINTAINING BASE AND INSTALLATION SECURITY SYSTEMS (BISS) MAINTAINING COMMON OR MISCELLANEOUS SUBASSEMBLIES	14
Q	PERFORMING MOBILITY AND SUPPORT FUNCTIONS	6
R S	PERFORMING MOBILITY AND SUPPORT FUNCTIONS PERFORMING ELECTRONIC AND INSTALLATION (E&I) FUNCTIONS	6 5
S T	PERFORMING CLOSED-CIRCUIT TELEVISION (CCTV) FUNCTIONS	ĭ
1	FERIORATING CEOSED-CIRCUIT TELEVISION (CCTV) TONCTIONS	1

* Denotes less than .5 percent NOTE: Columns may not add to 100 percent due to rounding

REPRESENTATIVE TASKS PERFORMED BY AFSC 304X0 FIRST-ENLISTMENT PERSONNEL (1-48 MONTHS TAFMS)

TASKS	·	PERCENT MEMBERS PERFORMING (N=498)
I 222	PERFORM CORROSION CONTROL	72
	PERFORM TURN-ON PROCEDURES	63
	PERFORM TURN-OFF PROCEDURES	63
G182	PERFORM RECEIVE SIGNAL LEVEL (RSL) CHECKS	56
1230	REMOVE ELECTROMECHANICAL COMPONENTS USING SOLDERING	
	METHODS	54
G186	PERFORM TEST TONE LEVEL TESTS	51
G156		
	ANALYZERS, TO DETERMINE EQUIPMENT OPERATION	50
1234		
	COMPONENTS, USING SOLDERING METHODS	49
I259		47
1258	UNPACK COMPONENTS AND MODULES	47
F136	PREPARE REPARABLE ITEMS FOR TURN-IN	46
E 102	MAKE ENTRIES ON MAINTENANCE FORMS	46
I249	MAKE ENTRIES ON MAINTENANCE FORMS REPLACE ELECTRONIC COMPONENTS, OTHER THAN MICROMINIATURE COMPONENTS, USING SOLDERING METHODS	
	COMPONENTS, USING SOLDERING METHODS	46
F135	PREPARE NONREPARABLE ITEMS FOR TURN-IN	46
G190	PERFORM FREQUENCY MODULATION (FM) QUIETING CURVES	45
1242	REPAIR CABLE ASSEMBLIES	44
G150	ESTABLISH ORDERWIRE CONTACT WITH DISTANT TERMINALS	43
G165	PERFORM CIRCUIT FAULT ISOLATION PROCEDURES	43
K351	ADJUST AUTOMATIC GAIN CONTROL (AGC) COMPONENTS	43
1257	SPLICE WIRING AND CABLES	43
1255	REPLACE MOUNTING HARDWARE	42
I 218	ISOLATE MALFUNCTIONS IN SYSTEMS TO SPECIFIC EQUIPMENT	42
1243	REPAIR INTERNAL WIRING	41
I240	REMOVE MOUNTING HARDWARE	41
G172	PERFORM IDLE CHANNEL NOISE TESTS	41
I2 37	REMOVE ELECTRONIC SUBASSEMBLIES USING SOLDERING METHODS	41
1236	REMOVE ELECTRONIC SUBASSEMBLIES USING METHODS OTHER THAN	
	SOLDERING	40
1245	REPLACE ELECTROMECHANICAL COMPONENTS USING SOLDERING	
	METHODS	40



EQUIPMENT MAINTAINED BY 304X0 FIRST-ENLISTMENT PERSONNEL (1-48 MONTHS TAFMS)

HF/SSB/ISB EQUIPMENT MAINTAINED	PERCENT Members Responding
205U-1 208A-1 208U-3 208U-10 310U-1 618T-1 651F-1 671G-1/F-1 AN/FRC-153 GA-11038 KWM-2/2A KWT-6/5 MW-2/3 R-2174 R-390A	1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

SHF TRANSCEIVER EQUIPMENT MAINTAINED	PERCENT MEMBERS RESPONDING
AN/FRA-90	4
AN/FRC-84	3
AN/FRC-109	3 9
AN/FRC-127	9
AN/FRC-148	2
AN/FRC-155/157/158/159/162/165	9
AN/FRC-167	3
AN/FRC-168	3
AN/FRC-171	6
AN/GSQ-120	1
AN/TRC-97A	20
AN/TRC-150	3
AN/TRC-170	9
MSC-64	2
Siemens 120/8000	4
Terracom TSC-600	6

TABLE 15 (CONTINUED)

EQUIPMENT MAINTAINED BY 304X0 FIRST-ENLISTMENT PERSONNEL (1-48 MONTHS TAFMS)

i.

VHF/UHF RECEIVERS EQUIPMENT MAINTAINED	PERCENT Members Responding
AN/FRC-39 Family	6
AN/FRC-56	3
AN/FRC-96/97	8
AN/FRC-114	3
Granger 6000	6

EQUIPMENT MAINTAINED RESPONDING	
AN/GSQ-199 19	
AN /GSS-20 21	
AN/GSS-29 24	
AN/CSS-30 4	
AN/GXS-2 23	
AN /DDC_15 4	
CDS_15 8	
GSM-266 13	
CSS-26A 20	
GSS-207 18	
033-32	
GSS-37 GXM-1	

Task Difficulty (TD)

The relative difficulty of each task in the inventory was assessed through ratings by 57 experienced Wideband Communications Equipment NCOs. Their ratings were processed to produce an ordered listing of all tasks in terms of their relative difficulty, and were standardized to have an average difficulty of 5.00, with a standard deviation of 1.00. For a more complete description of these ratings, see the <u>Task Factor Administration</u> section in SURVEY METHODOLOGY.

In looking at tasks with the highest difficulty ratings (see Table 16), data indicate that most of the tasks deal with supervisory functions and maintenance functions related to voice frequency multiplexers, modems, and BISS.

Training Emphasis (TE)

Forty-six senior NCOs in the Wideband Communications Equipment specialty reviewed the job inventory, rating the degree of emphasis that should be placed on each task in first-enlistment training. Their ratings were processed to provide a rank order listing of tasks from high degree of training emphasis to no training required. The average rating was 1.68 and the standard deviation was 1.03, so tasks receiving ratings of 2.71 or higher were considered to have high training emphasis. For a more complete description of these ratings, see the <u>Task Factor Administration</u> section in SURVEY METHODOLOGY.

Of those tasks with highest TE ratings, most were performed by high percentages of first-job personnel (1-24 months TAFMS, see Table 17). Most of these tasks involved equipment operation functions, receiver, or voice frequency multiplexer maintenance.

Specialty Training Standard (STS)

A comprehensive review of the STS for AFSC 304X0, dated June 1983, compared STS items to survey data. The matching was accomplished with the help of training personnel from the 3300th Technical Training Wing at Keesler AFB, Mississippi. STS paragraphs containing performance information were evaluated. In looking at paragraphs or subparagraphs. A few areas, however, were not supported. These paragraphs dealt with inspection of installed wideband communications equipment, recognition of defective test equipment, performance testing of equipment, and alignment of antennas (see Table 18). Training personnel and subject-matter experts should review these particular areas to determine if inclusion in future revisions to the STS are warranted. Technical tasks matched to elements of the STS showed high percentages of firstenlistment, and 5- and 7-skill level personnel performing those tasks. First-enlistment personnel tended to have a consistently higher percentage of members performing those tasks, followed by 5-skill level personnel.

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TASKS RATED HIGHEST IN TASK DIFFICULTY (TD)

TASKIST ENL3045030470TASKIST ENL3045030470TASKIST ENL3045030470A15ESTABLISH UNIT MANDORER REQUIREMENTS7.38133A15ESTABLISH UNIT MANDORER REQUIREMENTS7.3813333A15ESTABLISH UNIT MANDORER REQUIREMENTS7.387.381333				۹.	PERCENT MEMBERS PERFORMING	S
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MODULATION (PPM) MULTIPLEXERS	M644	MALFUNCTIONS IN SOLID-STATE PULSE				
		ION (bPM) MULTIPLEXE	6.93	4	en en	ę

* Average TD rating is 5.00 and the standard deviation is 1.00

TASKS RATED HIGHEST IN TRAINING EMPHASIS (TE)

PERCENT MEMBERS PERCENT MEMBERS PERFORMINGINGPERFORMINGINGISTGI82PERFORMINGGI82PERFORM RECIVE SIGNAL LEVEL (RSL) CHECKS5.856756GI56PERFORM RECIVE SIGNAL LEVEL (RSL) CHECKS5.85675656GI56PERFORM RECIVE SIGNAL LEVEL (RSL) OF REATION5.67675657GI56PERFORM RECIVE SIGNAL LEVEL RESULTION5.6767665657GI56PERFORM REST ONG LEVEL RESULTION5.676256575657GI50PERFORM RESENDO SERPER5.234330303030GI50PERFORM RESENDO LOADING5.67625756575657GI50PERFORM RESENDO SERPER5.245.33445756575657GI50PERFORM RECETIVE VOLTMETER NOISE SLOT5.02455756575657565756575657565756575657565756575657565756565756575657565756575657565756575657565756565756565756565756565656575656	TASK DIF**	3.56 5.87		3.63 3.65 3.45 3.45	4.17 4.21 2.58 3.29	2.36 6.18 5.74	2.63 6.70 4.31
TNG TNG FREPORM RECEIVE SIGNAL LEVEL (RSL) CHECKS EMP* FREPORM RECEIVE SIGNAL LEVEL (RSL) CHECKS 5.85 FREPORM CIRCUIT FAULT ISOLATION PROCEDURES 5.67 OBSERVE TEST EQUIPMENT, SUCH AS SCOPES AND SIGNAL 5.67 AMALYZERS, TO DETERMINE EQUIPMENT OPERATION 5.67 PERFORM FREQUENCY MODULATION (FM) QUIETING CURVES 5.24 PERFORM FREQUENCY MODULATION (FM) QUIETING CURVES 5.24 PERFORM FREQUENCY MODULATION (FM) QUIETING CURVES 5.24 PERFORM FREQUENCY MODULATION 4.65 PERFORM FREQUENCY MODULATION 4.65 PERFORM FREQUENCY MODULATION 7.65 PERFORM FREQUENCY 6.01 PMENT PERFORM FRECUENCE 6.02 PERFORM FRECUENCE 6.02 PERFORM FRECUENCE 6.02 PERFORM FRECUENCE	EMBERS [NG 1ST ENL (N=498)	56 43	50 51 46	30 36 45 45	32 30 32 32	63 39 32	43 15 20
PERFORM RECEIVE SIGNAL LEVEL (RSL) CHECKS PERFORM RECEIVE SIGNAL LEVEL (RSL) CHECKS DESERVE TEST EQUIPMENT, SUCH AS SCOPES AND SIGNAL ANALYZERS, TO DETERMINE EQUIPMENT OPERATION PERFORM TEST TONE LEVEL TESTS MAKE ENTRIES ON MAINTENANCE FORMS PERFORM BASEBAND SWEEPS FOR PERFORM BASEBAND SWEEPS PERFORM BASEBAND LOADING PERFORM TECL TESTS PERFORM TECL TESTS PERFORM TECL TESTS PERFORM TOWNLATION (FM) QUIETING CURVES PERFORM TOWNLATION (FM) QUIETING CURVES PERFORM TOWNLATION (FM) QUIETING CURVES PERFORM TOWNLATION (FM) QUIETING CURVES PERFORM TOWNLATIONAL CHECKS OF EQUIPMENT PERFORM TURN-OFF PROCEDURES PERFORM TURN-OFF PROCEDURES PER	PERCENT ME PERFORM 1ST JOB (N=101)	67 49	62 65 88 58	43 59 53 33	45 29 36	78 18 40	54 19 35
PERFORM RECEIVE SIGNAL LEVEL (RSL) PERFORM CIRCUIT FAULT ISOLATION PR OBSERVE TEST EQUIPMENT, SUCH AS SC ANALYZERS, TO DETERMINE EQUIPMENT PERFORM TEST TONE LEVEL TESTS MAXE ENTRIES ON MAINTENANCE FORMS PERFORM BASEBAND SWEEPS PAKE ENTRIES ON MAINTENANCE FORMS PERFORM BASEBAND LOADING PERFORM BASEBAND LOADING PERFORM BASEBAND LOADING PERFORM SELECTIVE VOLTMETER NOISE MASUREMENTS PERFORM TURN-ON PROCEDURES PERFORM TURN-OFF PROCEDURES PERFORM TURN-OFF PROCEDURES PERFORM TURN-OFF PROCEDURES PERFORM PMI ON FM RECEIVERS PERFORM PMI ON FM RECEIVERS ALIGN TIME DIVISION MULTIPLEXERS PERFORM PMI ON FM RECEIVERS PERFORM PMI ON FM RECEIVERS ALIGN TIME DIVISION MULTIPLEXERS PERFORM PMI ON FM RECEIVERS PERFORM PMI PMI PMI PMI PMI PMI PMI PMI PMI PM	EMP*	5.85 5.72	5.67 5.61 5.50	5.39 5.28 5.24	5.02 4.65 4.65 4.63	4.63 4.57 4.48 4.48	• • •
TASI TASI M64 2018 601906180 617 64 2018 601906190	S	PERFORM RECEIVE SIGNAL LEVEL (RS PERFORM CIRCUIT FAULT ISOLATION OBSERVE TEST EQUIPMENT, SUCH AS	ANALYZERS, TO DETERMINE EQUIPMENT PERFORM TEST TONE LEVEL TESTS MAKE ENTRIES ON MAINTENANCE FORMS	PERFORM BASEBAND SWEEPS PERFORM BASEBAND LOADING PERFORM FREQUENCY MODULATION (FM) PERFORM IDLE CHANNEL NOISE TESTS DERFORM STIFCTIVE VOI TWETED NOISE	MERSUREMENTS PERFORM PREOPERATIONAL PERFORM TURN-ON PROCEDU PERFORM TRANSMISSION LE	PERFORM TURN-OFF PROCE ALIGN TIME DIVISION MU PERFORM PMI ON FM RECE ALIGN FREQUENCY DIVISI	ESTABLISH ORDERWIKE CONTACT WITH UIS TERMINALS ISOLATE MALFUNCTIONS IN SOLID-STATE MULTIPLEXERS PERFORM IMPULSE NOISE TESTS

* Training Emphasis has an average of 1.68 and a standard deviation of 1.03 (High TE = 2.71) ** Average TD rating is 5.00 and the standard deviation is 1.00

EXAMPLES OF AFSC 304X0 STS ITEMS NOT SUPPORTED BY OSR DATA

			PERCENT N	PERCENT MEMBERS PERFORMING	ORMING	
STS REF	STS REFERENCE/TASKS	TNG EMP*	FIRST- ENLISTMENT (N=498)	5-SKILL LEVEL (N=1,099)	7-SKILL LEVEL (N=513)	TSK DIF**
(1)96	INSTALLATION OF WIDEBAND COMMUNICATIONS EQUIPMENT la/a 3c 4c					
S1364	PERFORM POST-INSTALLATION OPERATION TESTS	1.48	8%	6%	6%	5.46
9d(2)	INTERCONNECTION OF WIDEBAND COMMUNICATIONS EQUIPMENT 2b 3c 4c					
S1389	VISUALLY INSPECT INSTALLATION AND INTERCONNECTIONS OF INSTALLED EQUIPMENT	1.74	201	x 6	% 6	4.90
10d RE	RECOGNIZE DEFECTIVE TEST EQUIPMENT THROUGH INDICATIONS OBTAINED DURING USE 2b 3c 4c					
1217	ISOLATE MALFUNCTIONS IN RADIO RELAY PECULIAR TEST EQUIPMENT	3.13	16%	17%	13%	5.68
1216	ISOLATE MALFUNCTIONS IN GENERAL USER CALIBRATION TEST EQUIPMENT	2.46	15%	18%	15%	5.49
11a(2)	SIGNALING AND TERMINATING EQUIPMENT 2b 3c 4c					
01089 01096	PERFORM PMI ON HYBRID/FOUR-WIRE TERM UNITS PERFORM PMI ON RINGDOWN CONVERTERS	2.24 2.24	71% 14%	9% %	6% 6%	4. 25 4. 00
11a(9)	ANTENNA SYSTEMS 2b/- 3c 4c					
J308 J310	PERFORM PMI ON DIPOLE ANTENNAS PERFORM PMI ON PARABOLIC ANTENNAS	1.02	3% 16%	2% 18%	2 4 8 4	3.76 4.03
+ Tuedala		- 5 4 - 5	707 CO [30 -	1 TL - 0 711		

* Training Emphasis has an average of 1.68 and a standard deviation of 1.03 (High TE = 2.71) ** Task Difficulty has an average of 5.00 and a standard deviation of 1.00

Tasks not matched to any element of the STS are listed at the end of the STS computer listing included in the training extract. These were reviewed to determine if there were any tasks concentrated around any particular functions or jobs. There were 97 tasks not referenced to the STS and performed by 20 percent or more respondents of the STS target groups. The only trend noted was that performing general maintenance or equipment operation functions had the greatest percentage of unreferenced tasks. Many of the unreferenced tasks are managerial or supervisory in nature and are difficult to reference because that area of this STS, like most STSs, tended to be somewhat restricted in the scope of coverage. Examples of technical tasks performed by 20 percent or more respondents of the STS target groups, but which are not referenced to any STS element, are displayed in Table 19. Training personnel and subject-matter experts should review these and other eligible unreferenced tasks to determine if inclusion in the STS is warranted.

Plan of Instruction (POI)

The POI for Course E3ABR30430 002, dated 1 October 1984, was reviewed using tasks matched by training personnel to the criterion objectives (CO), plus task difficulty, training emphasis, and percent first-enlistment personnel performing information. The occupational survey data indicate that significant percentages of first-enlistment personnel are performing those tasks that were matched to COs requiring task performance of students. This is a principles-centered course, teaching applied communications maintenance. Due to the diversity of the career ladder, it is hard to train on all of the equipment utilized by AFSC 304X0 personnel, and hard to keep personnel current on the older equipment. In discussions with training personnel, it was determined that most of the equipment-specific training is being conducted at the organizational level as part of an OJT program. This is consistent with the primary objectives of this course in teaching only the basic fundamental principles of equipment maintenance.

There were 56 tasks not matched with COs of the POI that were performed by 30 percent or more first-enlistment personnel and considered to be directly related to wideband communications equipment maintenance. Thirty-nine of these 56 tasks received above average TE ratings (2.71 or higher), but only nine tasks were rated as having average or above average difficulty for firstenlistment personnel. Examples of technical tasks performed by 30 percent or more first-enlistment personnel, but which are not referenced to any POI element, are displayed in Table 20. Training personnel should look at these unreferenced tasks to determine the feasibility of inclusion in any revision to the POI.

Training personnel are encouraged to review the computer printouts of the POI matched with survey data as they undertake future revisions of the POI. Particular emphasis should be placed on reviewing the tasks not referenced to COs to determine if new areas should be added to the basic courses.

EXAMPLES OF TECHNICAL TASKS PERFORMED BY 20 PERCENT OR MORE GROUP MEMBERS AND NOT REFERENCED TO THE STS

		TASK DTE**		2 60	60 ° C	2 E7		n	0.4-C	A 00	1 .4	3.81	5.10		4 36	A 18		00.00	00 V	1.66	5.55
		TNG FMP+		2 EO	00.1	02 6		20°7	7.0.2	с 78	0110	3.57	3.54		3 65			01.0	A 20		3.93
ORMING	DAFSC	30470 (N=513)		66	L	20	0 C C C C C C C C C C C C C C C C C C C	 	77	66	11	26	23	2	10	;=	- <u>1</u>	2	טן	2	12
PERCENT MEMBERS PERFORMING	DAFSC	30450 (N=1,099)		33	2	32	3 C C	, c , c	2	40		33	41		39	53	25	2 L	JL	2	20
PERCENT	IST	ENL (N=498)		32	22	30	90	5 C C	2	45) L F (S S	41	•	40	30	24	7	16		18
			REPLACE ELECTROMECHANICAL COMPONENTS USING	METHODS OTHER THAN SOLDERING	REPLACE ELECTROMECHANICAL SUBASSEMBLIES USING	METHODS OTHER THAN SOLDERING	REPLACE MECHANICAL COMPONENTS	REPLACE MECHANICAL SURASSEMRI IFS	PERFORM FREQUENCY MODULATION (FM) OUTETING		CONSTRUCT SHOP CARLES	DEDATE THEREWALL UNDERS	KEFAIK INTERNAL WIKING	REPLACE ELECTROMECHANICAL COMPONENTS USING	SOLDERING METHODS	PERFORM PMI ON AMPLIFIERS		PERFORM ALTERNATE CIRCUIT ROUTING AT PATCH AND		REPLACE ELECTRONIC MICROMINIATURE COMPONENTS	USING SOLDERING METHODS
		TASKS	1244		1246		I253	1254	6190		1211		1643	1245		01078	G152	G158		1250	

* Training Emphasis has an average of 1.68 and a standard deviation of 1.03 (High TE = 2.71) ** Average TD rating is 5.00 and the standard deviation is 1.00

EXAMPLES OF TASKS NOT REFERENCED TO E3ABR30430 002 POI BLOCKS (30 PERCENT OR MORE RESPONDING)

		PERCENT MEMBERS PERFORMING	4EMBERS RMING		
TASKS		15T JOB (101=N)	1ST ENL (N=498)	TNG EMP*	TASK DIF**
1222	PERFORM CORROSION CONTROL	81	72	4.09	3.30
1230	REMOVE ELECTROMECHANICAL COMPONENTS USING SOLDERING METHODS	60	54	4.07	4.16
1226	REPLACE CABLE ASSEMBLIES	30	36	2.63	3.50
1227	REPLACE INTERNAL WIRING	32	34	2.61	4.87
1238	REMOVE MECHANICAL COMPONENTS	43	39	1.98	3.05
G187	PERFORM TRANSMISSION LEVEL TESTS	36	32	4.63	3.29
1249	REPLACE ELECTRONIC COMPONENTS, OTHER THAN MICROMINIATURE				
	COMPONENTS, USING SOLDERING METHODS	52	46	4.17	4.50
1257	SPLICE WIRING AND CABLES	41	43	3.50	4.18
K353	ADJUST DISCRIMINATOR COMPONENTS	37	31	3.80	5.72
09860	ADJUST LOCAL OSCILLATOR COMPONENTS	39	32	2.91	5.01
1233	REMOVE ELECTRONIC COMPONENTS, OTHER THAN MICROMINIATURE				
	COMPONENTS, USING METHODS OTHER THAN SOLDERING	34	29	3.37	3.30
1229	REMOVE ELECTROMECHANICAL COMPONENTS USING METHODS OTHER THAN				1
	SOLDERING	44	37	2.78	2.85
M622	ADJUST LEVEL REGULATOR COMPONENTS	30	2٦	3.13	4.89

* Training Emphasis has an average of 1.68 and a standard deviation of 1.03 (High TE = 2.71) ** Average TD rating is 5.00 and the standard deviation is 1.00

Electronics Principles (EP)

The Electronics Fundamentals paragraph of the STS and the electronic principles taught in the basic course can be evaluated using data from the Electronics Principles Inventory (EPI). The EPI is a knowledge-based inventory containing 1,366 questions in 63 electronics-related subject areas. It identifies the range of EPs personnel must understand to perform any electronics-related job.

Table 21 lists the 26 electronic areas where 50 percent or more AFSC 30450 airmen responded "yes" to performing these functions in their job. This data, as well as the complete data package for Keesler AFB AFSCs, can be useful to subject-matter experts when evaluating those portions of the STS and POI concerning electronics fundamentals or principles.

ADDITIONAL ANALYSES

Analysis of Major Commands (MAJCOM)

Although AFCC personnel constitute 80 percent of the AFSC 304X0 career ladder population, jobs performed by the other seven MAJCOMs were defined and compared to determine if job content varied by MAJCOM assignment. Table 22 presents data on the relative time spent on each of the 20 duties by personnel in each of the eight MAJCOM groups.

As would be expected, AFCC personnel are involved in the full range of the career ladder jobs, spending time on tasks pertaining to all areas of wideband communication equipment maintenance. Twenty-two percent of job time for AFCC personnel is spent in BISS maintenance and general maintenance. TAC, USAFE, and PACAF personnel spend much of their job time in mobility-related functions, with significant percentages of time spent in equipment operations, general maintenance, and receiver maintenance. General maintenance and equipment operations account for significant percentages of job time for AFELM OTH personnel. AFSC personnel perform the E&I functions of the career ladder, with 11 percent of total job time spent in this function. Another 37 percent of AFSC job time is spent in administrative, directing, and implementing duties. AFELM EUR spend 27 percent of their job time in common or miscellaneous subassembly maintenance and receiver maintenance, while ATC personnel perform the primary training function with 57 percent of job time spent in that area.

While some variations can be seen in the relative time spent on the various areas of wideband equipment maintenance, the number of personnel involved is too small to suggest any variation in the initial formal training program for career ladder personnel. If they feel it is warranted, career ladder managers could meet any necessary specialized training requirements by working out programs concentrating on systems with which the target populations are most involved.

ELECTRONICS PRINCIPLES USED BY FIFTY PERCENT OR MORE OF AFSC 30450 PERSONNEL

MATHEMATICS

DIRECT CURRENT

RESISTANCE AND RESISTIVE CIRCUITS

METERS AND MULTIMETERS

ALTERNATING CURRENT

INDUCTORS AND INDUCTIVE REACTANCE

CAPACITORS AND CAPACITIVE REACTANCE

TRANSFORMERS

RCL CIRCUITS

FILTERS

COUPLING

SOLDERING OR SOLDERLESS CONNECTIONS

RELAYS

OSCILLOSCOPES

SEMICONDUCTOR DIODES

TRANSISTORS

TRANSISTOR AMPLIFIERS

SOLID-STATE SPECIAL PURPOSE DEVICES

POWER SUPPLIES

OSCILLATORS

HETERODYNING AND MODULATION-DEMODULATION (MODEMS)

FM SYSTEMS

USE OF SIGNAL GENERATORS

METER MOVEMENTS

CABLE FABRICATION

DB AND POWER RATIOS

.

RELATIVE PERCENT TIME SPENT ON DUTIES BY MAJOR COMMANDS (MAJCOM)

3	DUTIES	AFCC	TAC	USAFE	ATC	PACAF	AFELM (EUR)	AFELM (OTH)	AFSC
ABOC	ORGANIZING AND PLANNING DIRECTING AND IMPLEMENTING INSPECTING AND EVALUATING TRAINING	ი 4 ი ი	4040	ი ი 4 ი	, 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	യ 4 4 ư	6044	04 v v	7755
ш	PREPARING AND MAINTAINING FORMS, RECORDS, AND REPORTS) ©	ى رە س	, o	ы С	~ ~	ب ہو) 4	» ه
цс	PERFORMING SUPPLY FUNCTIONS PERFORMING EQUIPMENT OPERATION FUNCTIONS	9 1	4 [ഗര	С	កក្ត	<u>ب</u> م	40	4-
Ŧ	SATELLITE OPERATION	*	*	*	io	2*) *	2	- 0
د. ب	PERFORMING GENERAL MAINTENANCE FUNCTIONS MAINTAINING ANTENNA SYSTEMS	٥ ر	= ^	ي 8	∾*	თ დ	∞ 4	3 3	<u>و</u> ۳
×	MAINTAINING RECEIVERS TO INCLUDE RECEIVE PORTION OF TRANSCEIVERS	Ω I	01	· =	S) Q	. 12	ი ი ი	
	MAINTAINING TRANSMITTERS TO INCLUDE TRANSMITTER PORTION OF TRANSCEIVERS	4	7	ۍ	2	ę	ſ	4	σ
Σ	VOICE FREQUENCY MULTIP TED INTERFACE EQUIPMEN	4	പ	ъ	~	ო	و	4	9
Z	MAINTAINING TELETYPE MULTIPLEXERS AND ASSOCIATED INTERFACE EQUIPMENT	2	2	2	*	*	რ	-	0
0 4	MAINTAINING MODEMS MAINTAINING BASE AND INSTALLATION	*	*	*	*	*	-	-	0
C	STEMS (BISS)	12	~	*	~	-	ო	0	m
7	SUBASSEMBLIES	ω	6	ω	-	2	15	6	2
ຊິ	PERFORMING MOBILITY AND SUPPORT FUNCTIONS PERFORMING ELECTRONIC AND INSTALLATION	4	13	15		20	œ	ω	-
	(E&I) FUNCTIONS PERFORMING CLOSED-CIRCULT TELEVISION	4	-	-	*	~	-	7	1
•			*	*	*	O	2	*	0

* Denotes less than .5 percent NOTE: Columns may not add to 100 percent due to rounding

Analysis of CONUS Versus Overseas

A comparison was made between the tasks performed and the background data for the DAFSC 30450 personnel who were assigned within the CONUS versus those assigned to an overseas location. Results indicated that, while the job performed by both groups was basically the same, a few variations did exist. Those repondents who were assigned overseas reported performing a higher average number of tasks than those within the CONUS (169 versus 124). In addition, overseas personnel spend the majority of their job time in common and miscellaneous subassembly maintenance and receiver maintenance, while their counterparts in CONUS concentrate on maintenance in support of BISS.

Finally, there were some background differences between the two groups. Both groups reported similar paygrades and time in service, but there were distinguishable differences in job satisfaction indicators. While perceptions of job interest and accomplishment from the job were fairly equal, CONUS personnel expressed lower satisfaction in the use of talents and training. Eighty-three percent of overseas respondents felt their talents were adequately utilized. Only 73 percent of CONUS personnel felt the same way. In utilization of training, an even bigger difference was noted. Only 57 percent of CONUS respondents felt their training was effectively utilized, while 76 percent of overseas respondents answered positively. For reenlistment intentions, overseas personnel were slightly higher in favoring reenlistment (70 percent versus 61 percent).

WRITE-IN COMMENTS

Write-in comments can lend particular insight into the thoughts of personnel in the career ladder. In addition to responding to the survey questions, incumbents were also encouraged to write in any additional information which may be relevant to the analysis of the 304X0 AFSC. This included such items as problems which they feel may presently exist in the career ladder, or tasks and equipment which individual members believe should be added to the job inventory. As a result, many comments covering a wide range of career field-related subjects were collected.

A number of respondents expressed the general perception that their utilization in the career field is not at its optimum. These respondents described how they were in staff positions and not performing actual wideband equipment maintenance, or how they were being utilized in a career field other than AFSC 304X0. According to these incumbents, when they are assigned to these other duties or positions, they are not able to apply the training they received in technical school and tend to forget what they learned. Or, incumbents are assigned to a system that is totally unfamiliar to them and they must then learn the system from scratch. Consequently, most of these respondents feel that a better utilization of AFSC 304X0 personnel needs to take place in order for the Air Force to fully benefit from their talents and training. Finally, the majority of the other comments which were received consisted of a number of unique tasks that were performed, equipment maintained, and job titles held by some incumbents that were not listed in the job inventory.

IMPLICATIONS

This survey was conducted primarily to provide training information for use in developing a TRA by the USAFOMC Training Development Services Division.

These findings will have minimal impact on training. Analysis of career ladder documents indicates that the STS is generally supported by survey data, although several areas were not. Training personnel and subject-matter experts should review these areas to determine if inclusion is warranted in any revisions to the document. The POI is well supported by survey data. Tasks not referenced to the documents should also be reviewed by training personnel and subject-matter experts to determine if new areas should be added to the documents.

The findings of this survey suggest that the Wideband Communications Equipment Specialty is a diverse and highly technical career ladder. Survey respondents were organized around maintenance of fixed and mobile systems, intrusion detection systems, and specialized areas of wideband communication equipment maintenance. The present classification structure, as described by the AFR 39-1 Specialty Descriptions, accurately portrays the jobs in this study.

No serious job satisfaction problems appear to exist within this specialty. Overall, the job satisfaction responses were slightly lower than that of a comparative sample of Air Force personnel in 1987 and exceeded those responses of the comparative sample of a similar job group in a 1981 study.

The findings of this OSR come directly from survey data collected from Wideband Communications Equipment members worldwide. These data are readily available to training and utilization personnel, functional managers, and any other interested parties having a need for such information. Much of the data are compiled into extracts which are excellent tools in the decision-making process. These data extracts should be used when a training or utilization decision is made.

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APPENDIX A

SELECTED REPRESENTATIVE TASKS PERFORMED BY CAREER LADDER SPECIALTY JOBS

TABLE I

GROUP ID NUMBER AND TITLE: STG204, BASE INTRUSION SECURITY SYSTEM (BISS) PERSONNEL

GROUP SIZE: 261	AVERAGE TIME IN JOB: 21 MONTHS
PREDOMINATE PAYGRADES: E-4/5/3	AVERAGE TAFMS: 74 MONTHS
PERCENT OF SAMPLE: 14%	AVERAGE TICF: 48 MONTHS

THE FOLLOWING ARE IN DESCENDING ORDER BY PERCENT MEMBERS PERFORMING:

TASKS		PERCENT MEMBERS PERFORMING
P872	PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON PERIMETER SECURITY SYSTEMS	07
P847		97 92
P816	ADJUST SECURITY SYSTEM AREA SENSOR SYSTEM COMPONENTS	90
P815		89
P835		88
P818		87
P871	ISOLATE SYSTEM MALFUNCTIONS TO CODER MULTIPLEXER SENSOR	07
FOT	DATA	86
P843	ISOLATE MALFUNCTIONS IN CODER MULTIPLEXER SENSOR DATA TO	00
1045	CIRCUIT BOARD	86
P841	INSTALL CODER MULTIPLEXER SENSOR DATA (CMSD) CIRCUIT	00
1041	BOARDS	86
P844	ISOLATE MALFUNCTIONS IN DISPLAY SENSOR DATA	86
P874		86
P865	ISOLATE MALFUNCTIONS IN SECURITY SYSTEM TELEVISION CAMERAS	
P836		85
P821	ADJUST SECURITY SYSTEM FENCE DISTURBANCE SENSOR SYSTEM	00
	COMPONENTS	85
P853	ISOLATE MALFUNCTIONS IN SECURITY SYSTEM FENCE DISTURBANCE	
	SENSOR SYSTEM	84
P866	ISOLATE MALFUNCTIONS IN SECURITY SYSTEM TELEVISION	•
	MONITORS	84
P952	REPLACE SECURITY SYSTEM TELEVISION CAMERAS	84
P812		84
P911	REPAIR MALFUNCTIONS IN SECURITY SYSTEM FENCE DISTURBANCE	
	SENSOR SYSTEMS	83
P923	REPAIR MALFUNCTIONS IN SECURITY SYSTEM TELEVISION CAMERAS	83
P901	REMOVE CMSD CIRCUIT BOARDS	83

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TABLE I-A

GROUP ID NUMBER AND TITLE: STG294, BISS MAINTENANCE SUPERVISORS

GROUP SIZE: 19		AVERAGE TIME IN JOB: 17 MONTHS
PREDOMINATE PAYGRADES:	E-5/6/4	AVERAGE TAFMS: 131 MONTHS
PERCENT OF SAMPLE: 1%		AVERAGE TICF: 74 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
P847		95
C 60	PREPARE APR	89
A20		89
A4		89
D74	DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL	
	INFORMATION	89
P841	•	~~
	BOARDS	89
P872		~
	PERIMETER SECURITY SYSTEMS	84
C51		84 84
	ADJUST SECURITY SYSTEM AREA SENSOR SYSTEM COMPONENTS	84 84
B29		04
P843	ISOLATE MALFUNCTIONS IN CODER MULTIPLEXER SENSOR DATA TO	84
105	CIRCUIT BOARD	84
A25		79
D85 D73	CONDUCT OJT	79
D72	CONDUCT UPGRADE TRAINING	79
	PREPARE SUPPLY JUSTIFICATIONS	79
E115 E94	MAINTAIN HISTORICAL RECORDS	79
A3	DETERMINE REQUIREMENTS FOR SPACE, PERSONNEL, EQUIPMENT,	, 5
72	AND SUPPLIES	79
P844	ISOLATE MALFUNCTIONS IN DISPLAY SENSOR DATA	79
	ADJUST SECURITY SYSTEM ANNUNCIATOR COMPONENTS	79
P850	ISOLATE MALFUNCTIONS IN SECURITY SYSTEM CONTROL POWER	·
	SUPPLIES	79
F139	REVIEW TABLE OF ALLOWANCES (TA)	79
A12		74
-		

TABLE I-B

GROUP ID NUMBER AND TITLE: STG565, PERIMETER SECURITY SYSTEM TECHNICIANS

GROUP SIZE: 199	AVERAGE TIME IN JOB: 21 MONTHS
PREDOMINATE PAYGRADES: E-4/5/3	AVERAGE TAFMS: 67 MONTHS
PERCENT OF SAMPLE: 10%	AVERAGE TICF: 46 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
P872	PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON	
	PERIMETER SECURITY SYSTEMS	99
P835	ADJUST SECURITY SYSTEM TELEVISION CAMERA COMPONENTS	98
P874	PERFORM PMI ON TELEVISION SECURITY SYSTEMS	97
P952	REPLACE SECURITY SYSTEM TELEVISION CAMERAS	97
P865	ISOLATE MALFUNCTIONS IN SECURITY SYSTEM TELEVISION CAMERAS	96
P836	ADJUST SECURITY SYSTEM TELEVISION MONITOR COMPONENTS	95
P923	REPAIR MALFUNCTIONS IN SECURITY SYSTEM TELEVISION CAMERAS	95
P895	REMOVE SECURITY SYSTEM TELEVISION CAMERAS	94
P866	ISOLATE MALFUNCTIONS IN SECURITY SYSTEM TELEVISION	
	MONITORS	94
P924	REPAIR MALFUNCTIONS IN SECURITY SYSTEM TELEVISION MONITORS	94
P847	ISOLATE MALFUNCTIONS IN SECURITY SYSTEM ANNUNCIATORS	94
P815	ADJUST SECURITY SYSTEM ANNUNCIATOR COMPONENTS	93
P838	ADJUST SECURITY SYSTEM TELEVISION VIDEO AMPLIFIER	
	COMPONENTS	92
P816	ADJUST SECURITY SYSTEM AREA SENSOR SYSTEM COMPONENTS	92
P953	REPLACE SECURITY SYSTEM TELEVISION MONITORS	92
P837	ADJUST SECURITY SYSTEM TELEVISION SWITCHING MATRIX UNIT	
	COMPONENTS	92
P911	REPAIR MALFUNCTIONS IN SECURITY SYSTEM FENCE DISTURBANCE	
	SENSOR SYSTEMS	90
P896	REMOVE SECURITY SYSTEM TELEVISION MONITORS	90
P905	REPAIR MALFUNCTIONS IN SECURITY SYSTEM ANNUNCIATORS	90
P853	ISOLATE MALFUNCTIONS IN SECURITY SYSTEM FENCE DISTURBANCE	
	SENSOR SYSTEM	89

TABLE I-C

GROUP ID NUMBER AND TITLE: STG422, STRUCTURE SECURITY SYSTEM TECHNICIANS

GROUP SIZE: 15		AVERAGE	TIME IN	JOB: 18 MONTHS
PREDOMINATE PAYGRADES:	E-4/5/3	AVERAGE	TAFMS:	66 MONTHS
PERCENT OF SAMPLE: 1%		AVERAGE	TICF:	52 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
P870	ISOLATE MALFUNCTIONS IN CMSD PRINTED CIRCUIT BOARD TO COMPONENTS	100
P843	ISOLATE MALFUNCTIONS IN CODER MULTIPLEXER SENSOR DATA TO	100
P928	CIRCUIT BOARD REPAIR MALFUNCTIONS IN CMSD PRINTED CIRCUIT BOARD TO COMPONENTS	100
P871	ISOLATE SYSTEM MALFUNCTIONS TO CODER MULTIPLEXER SENSOR	
0000	DATA	100 100
P930 P819	REPAIR CMSD CIRCUIT BOARDS AND COMPONENTS ADJUST SECURITY SYSTEM DIGITAL DATA RECEIVER COMPONENTS	100
P844	ISOLATE MALFUNCTIONS IN DISPLAY SENSOR DATA	100
P902	REPAIR DISPLAY SENSOR DATA	100
P902 P900	REMOVE CMSD	100
	ADJUST SECURITY SYSTEM AREA SENSOR SYSTEM COMPONENTS	93
P815	ADJUST SECURITY SYSTEM AREA SERSOR STATEM COMPONENTS	93
P841	INSTALL CODER MULTIPLEXER SENSOR DATA (CMSD) CIRCUIT	55
r041	BOARDS	93
P901	REMOVE CMSD CIRCUIT BOARDS	93
P872	PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON	50
1072	PERIMETER SECURITY SYSTEMS	87
P847	ISOLATE MALFUNCTIONS IN SECURITY SYSTEM ANNUNCIATORS	87
P862	ISOLATE MALFUNCTIONS IN SECURITY SYSTEM SENSOR DATA	••
	DECODERS	87
P957	REPLACE CMSD CIRCUIT BOARDS	87
P812	ADJUST DISPLAY SENSOR DATA	87
1236	REMOVE ELECTRONIC SUBASSEMBLIES USING METHODS OTHER THAN	
	SOLDERING	87

TABLE II

GROUP ID NUMBER AND TITLE: STG124, MOBILE WIDEBAND COMMUNICATIONS EQUIPMENT PERSONNEL

GROUP SIZE: 283	AVERAGE TIME IN JOB: 22 MONTHS
PREDOMINATE PAYGRADES: E-4/5/3	AVERAGE TAFMS: 74 MONTHS
PERCENT OF SAMPLE: 15%	AVERAGE TICF: 58 MONTHS

G188PERFORM TURN-OFF PROCEDURES99G189PERFORM TURN-ON PROCEDURES98R1265CLEAN MAINTENANCE WORK AREAS92J278ASSEMBLE PARABOLIC ANTENNA COMPONENTS92J278ASSEMBLE PARABOLIC ANTENNA COMPONENTS92J286INSPECT WAVEGUIDES92R1266CAMOUFLAGE EQUIPMENT91J287INVENTORY ANTENNA SYSTEMS89G182PERFORM RECEIVE SIGNAL LEVEL (RSL) CHECKS89G152ESTABLISH WIDEBAND LINKS89R1299OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR PASSENGER VEHICLES88R1322REMOVE CAMOUFLAGE NETTING88R1325REMOVE MOBILE COMMUNICATION EQUIPMENT86J305PERFORM POST-DEPLOYMENT ANTENNA INSPECTIONS86J306PERFORM CORROSION CONTROL85J306PERFORM PREDEPLOYMENT ANTENNA INSPECTIONS83R1287INSTALL CAMOUFLAGE NETTING81R1283INSTALL CAMOUFLAGE NETTING81R1283INSTALL CAMOUFLAGE NETTING81J306PERFORM PREDEPLOYMENT ANTENNA INSPECTIONS83R1287INSTALL CAMOUFLAGE NETTING81R1283INSTALL CAMOUFLAGE NETTING81J276ASSEMBLE FEEDHORN ASSEMBLY COMPONENTS81J281DISASSEMBLE FEEDHORN ASSEMBLY COMPONENTS81J281DISASSEMBLE FEEDHORN ASSEMBLY COMPONENTS80R1262ANCHOR EQUIPMENT VANS AND SHELTERS77R1318POSITION VEHICLES76C120DE	TASKS		PERCENT MEMBERS PERFORMING
R1265CLEAN MAINTENANCE WORK AREAS92J278ASSEMBLE PARABOLIC ANTENNA COMPONENTS92J286INSPECT WAYEGUIDES92R1266CAMOUFLAGE EQUIPMENT91J287INVENTORY ANTENNA SYSTEMS89G182PERFORM RECEIVE SIGNAL LEVEL (RSL) CHECKS89G152ESTABLISH WIDEBAND LINKS89R1299OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR PASSENGER VEHICLES88R1322REMOVE CAMOUFLAGE NETTING88R1325FIRE M-16 WEAPONS86G150ESTABLISH ORDERWIRE CONTACT WITH DISTANT TERMINALS86J305PERFORM POST-DEPLOYMENT ANTENNA INSPECTIONS86G150ESTABLISH ORDERWIRE CONTACT WITH DISTANT TERMINALS85J222PERFORM CORROSION CONTROL85J306PERFORM PREDEPLOYMENT ANTENNA INSPECTIONS83R1287INSTALL CAMOUFLAGE NETTING81R1283INSTALL CAMOUFLAGE NETTING81R1283INSTALL CAMOUFLAGE NETTING81J276ASSEMBLE FEEDHORN ASSEMBLY COMPONENTS80R1262ANCHOR EQUIPMENT VANS AND SHELTERS77R1318POSITION VEHICLES76	G188	PERFORM TURN-OFF PROCEDURES	99
J278ASSEMBLE PARABOLIC ANTENNA COMPONENTS92J286INSPECT WAVEGUIDES92R1266CAMOUFLAGE EQUIPMENT91J287INVENTORY ANTENNA SYSTEMS89G182PERFORM RECEIVE SIGNAL LEVEL (RSL) CHECKS89G152ESTABLISH WIDEBAND LINKS89R1299OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR PASSENGER VEHICLES88R1322REMOVE CAMOUFLAGE NETTING88R1325REMOVE MOBILE COMMUNICATION EQUIPMENT86J305PERFORM POST-DEPLOYMENT ANTENNA INSPECTIONS86G150ESTABLISH ORDERWIRE CONTACT WITH DISTANT TERMINALS86J283DISASSEMBLE PARABOLIC ANTENNA INSPECTIONS85J222PERFORM CORROSION CONTROL85J306PERFORM PREDEPLOYMENT ANTENNA INSPECTIONS83R1287INSTALL CAMOUFLAGE NETTING81R1283INSTALL CAMOUFLAGE NETTING81R1319PREPORM CORROSION CONTROL81J276ASSEMBLE FEEDHORN ASSEMBLY COMPONENTS81J276ASSEMBLE FEEDHORN ASSEMBLY COMPONENTS80R1262ANCHOR EQUIPMENT VANS AND SHELTERS77R1318POSITION VEHICLES76	G189	PERFORM TURN-ON PROCEDURES	98
J286INSPECT WAVEGUIDES92R1266CAMOUFLAGE EQUIPMENT91J287INVENTORY ANTENNA SYSTEMS89G182PERFORM RECEIVE SIGNAL LEVEL (RSL) CHECKS89G152ESTABLISH WIDEBAND LINKS89R1295OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR88R1322REMOVE CAMOUFLAGE NETTING88R1325REMOVE CAMOUFLAGE NETTING88R1325REMOVE MOBILE COMMUNICATION EQUIPMENT86J305PERFORM POST-DEPLOYMENT ANTENNA INSPECTIONS86G150ESTABLISH ORDERWIRE CONTACT WITH DISTANT TERMINALS86J283DISASSEMBLE PARABOLIC ANTENNA COMPONENTS85J222PERFORM CORROSION CONTROL85J306PERFORM PREDEPLOYMENT ANTENNA INSPECTIONS83R1287INSTALL CAMOUFLAGE NETTING81R1283INSTALL CAMOUFLAGE NETTING81J276ASSEMBLE FEEDHORN ASSEMBLY COMPONENTS81J276ASSEMBLE FEEDHORN ASSEMBLY COMPONENTS80R1262ANCHOR EQUIPMENT VANS AND SHELTERS77R1318POSITION VEHICLES76	R1265		
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J306PERFORM PREDEPLOYMENT ANTENNA INSPECTIONS83R1287INSTALL MOBILE COMMUNICATION EQUIPMENT81R1283INSTALL CAMOUFLAGE NETTING81R1319PREPARE CAMOUFLAGE NETTING81J276ASSEMBLE FEEDHORN ASSEMBLY COMPONENTS81J281DISASSEMBLE FEEDHORN ASSEMBLY COMPONENTS80R1262ANCHOR EQUIPMENT VANS AND SHELTERS77R1318POSITION VEHICLES76		DISASSEMBLE PARABOLIC ANTENNA COMPONENTS	
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R1283INSTALL CAMOUFLAGE NETTING81R1319PREPARE CAMOUFLAGE NETTING81J276ASSEMBLE FEEDHORN ASSEMBLY COMPONENTS81J281DISASSEMBLE FEEDHORN ASSEMBLY COMPONENTS80R1262ANCHOR EQUIPMENT VANS AND SHELTERS77R1318POSITION VEHICLES76			
R1319PREPARECAMOUFLAGENETTING81J276ASSEMBLEFEEDHORNASSEMBLYCOMPONENTS81J281DISASSEMBLEFEEDHORNASSEMBLYCOMPONENTS80R1262ANCHOREQUIPMENTVANSANDSHELTERS77R1318POSITIONVEHICLES76			
J276ASSEMBLE FEEDHORN ASSEMBLY COMPONENTS81J281DISASSEMBLE FEEDHORN ASSEMBLY COMPONENTS80R1262ANCHOR EQUIPMENT VANS AND SHELTERS77R1318POSITION VEHICLES76			
J281DISASSEMBLE FEEDHORN ASSEMBLY COMPONENTS80R1262ANCHOR EQUIPMENT VANS AND SHELTERS77R1318POSITION VEHICLES76			
R1262ANCHOR EQUIPMENT VANS AND SHELTERS77R1318POSITION VEHICLES76			
R1318 POSITION VEHICLES 76			
GITZ PERFORM IDLE CHANNEL NOISE TESTS 70	G172	PERFORM IDLE CHANNEL NOISE TESTS	76

TABLE II-A

GROUP ID NUMBER AND TITLE: STG218, MOBILE TROPOSPHERIC RADIO TECHNICIANS

GROUP SIZE: 21		AVERAGE	TIME IN	I JOB: 11 MONTHS
PREDOMINATE PAYGRADES:	E-4/5/3	AVERAGE	TAFMS:	68 MONTHS
PERCENT OF SAMPLE: 1%		AVERAGE	TICF:	48 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
G 189	PERFORM TURN-ON PROCEDURES	100
G188	PERFORM TURN-OFF PROCEDURES	100
G172	PERFORM IDLE CHANNEL NOISE TESTS	95
J278		90
G 182	PERFORM RECEIVE SIGNAL LEVEL (RSL) CHECKS	90
	PERFORM FREQUENCY MODULATION (FM) QUIETING CURVES	90
G152		81
J286		76
R1263		71
J283		71
	DISASSEMBLE FEEDHORN ASSEMBLY COMPONENTS	71
1222	PERFORM CORROSION CONTROL	71
	PERFORM TEST TONE LEVEL TESTS	71
	INVENTORY ANTENNA SYSTEMS	71
R1265		67
R 1299		6 -
	PASSENGER VEHICLES	67
J276	ASSEMBLE FEEDHORN ASSEMBLY COMPONENTS	67
G150	ESTABLISH ORDERWIRE CONTACT WITH DISTANT TERMINALS	67
R1287		62
J270		62
1259		62
1219		62
R1322		57
J306	PERFORM PREDEPLOYMENT ANTENNA INSPECTIONS	57
	PERFORM POST-DEPLOYMENT ANTENNA INSPECTIONS	57
R1325	REMOVE MOBILE COMMUNICATION EQUIPMENT	52

TABLE II-B

GROUP ID NUMBER AND TITLE: STG202, MOBILE MICROWAVE RADIO TECHNICIANS

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GROUP SIZE: 256	AVERAGE TIME IN JOB: 23 MONTHS
PREDOMINATE PAYGRADES: E-4/5/3	AVERAGE TAFMS: 74 MONTHS
PERCENT OF SAMPLE: 14%	AVERAGE TICF: 59 MONTHS

THE FOLLOWING ARE IN DESCENDING ORDER BY PERCENT MEMBERS PERFORMING:

G188 PERFORM TURN-OFF PROCEDURES G189 PERFORM TURN-ON PROCEDURES R1265 CLEAN MAINTENANCE WORK AREAS J286 INSPECT WAVEGUIDES R1263 CAMOUFLAGE EQUIPMENT J278 ASSEMBLE PARABOLIC ANTENNA COMPONENTS	PERCENT MEMBERS PERFORMING
R1265 CLEAN MAINTENANCE WORK AREAS J286 INSPECT WAVEGUIDES R1263 CAMOUFLAGE EQUIPMENT J278 ASSEMBLE PARABOLIC ANTENNA COMPONENTS	98
J286 INSPECT WAVEGUIDES R1263 CAMOUFLAGE EQUIPMENT J278 ASSEMBLE PARABOLIC ANTENNA COMPONENTS	98
R1263 CAMOUFLAGE EQUIPMENT J278 ASSEMBLE PARABOLIC ANTENNA COMPONENTS	95
J278 ASSEMBLE PARABOLIC ANTENNA COMPONENTS	93
	93
51075 FIDE N 16 UEADANC	92
R1275 FIRE M-16 WEAPONS	92
R1322 REMOVE CAMOUFLAGE NETTING	91
G152 ESTABLISH WIDEBAND LINKS	92
R1299 OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR	
PASSENGER VEHICLES	90
J287 INVENTORY ANTENNA SYSTEMS	90
R1325 REMOVE MOBILE COMMUNICATION EQUIPMENT	90
J305 PERFORM POST-DEPLOYMENT ANTENNA INSPECTIONS	89
G182 PERFORM RECEIVE SIGNAL LEVEL (RSL) CHECKS	89
G150 ESTABLISH ORDERWIRE CONTACT WITH DISTANT TERMINALS	89
J283 DISASSEMBLE PARABOLIC ANTENNA COMPONENTS	87
1222 PERFORM CORROSION CONTROL	86
J306 PERFORM PREDEPLOYMENT ANTENNA INSPECTIONS	86
R1319 PREPARE CAMOUFLAGE NETTING	86
R1283 INSTALL CAMOUFLAGE NETTING	85
R1287 INSTALL MOBILE COMMUNICATION EQUIPMENT	84
J276 ASSEMBLE FEEDHORN ASSEMBLY COMPONENTS	84
R1262 ANCHOR EQUIPMENT VANS AND SHELTERS	82
J281 DISASSEMBLE FEEDHORN ASSEMBLY COMPONENTS	82
R1318 POSITION VEHICLES	81
R1317 POSITION SHELTERS	79

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TABLE III

GROUP ID NUMBER AND TITLE: STG106, FIXED WIDEBAND COMMUNICATIONS EQUIPMENT PERSONNEL

GROUP SIZE: 377	AVERAGE TIME IN JOB: 22 MONTHS
PREDOMINATE PAYGRADES: E-4/5/3	AVERAGE TAFMS: 79 MONTHS
PERCENT OF SAMPLE: 21%	AVERAGE TICF: 63 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
G 182	PERFORM RECEIVE SIGNAL LEVEL (RSL) CHECKS	90
G186	PERFORM TEST TONE LEVEL TESTS	87
G189	PERFORM TURN-ON PROCEDURES	83
G188	PERFORM TURN-OFF PROCEDURES	83
1222	PERFORM CORROSION CONTROL	82
G156	OBSERVE TEST EQUIPMENT, SUCH AS SCOPES AND SIGNAL	
	ANALYZERS, TO DETERMINE EQUIPMENT OPERATION	80
G190	PERFORM FREQUENCY MODULATION (FM) QUIETING CURVES	79
	ADJUST AUTOMATIC GAIN CONTROL (AGC) COMPONENTS	76
	PERFORM SWITCHOVERS OF EQUIPMENT SUBASSEMBLIES TO	
	REDUNDANT EQUIPMENT	73
G165	PERFORM CIRCUIT FAULT ISOLATION PROCEDURES	71
	REMOVE ELECTROMECHANICAL COMPONENTS USING SOLDERING	
	METHODS	71
K360	ADJUST PILOT TONE DETECTOR COMPONENTS	69
	PERFORM PMI ON FM RECEIVERS	69
I234		
	COMPONENTS, USING SOLDERING METHODS	68
0961	ADJUST ATTENUATORS	68
G150	ESTABLISH ORDERWIRE CONTACT WITH DISTANT TERMINALS	68
	ALIGN FREQUENCY DIVISION MULTIPLEXERS	66
	PERFORM SELECTIVE VOLTMETER NOISE SLOT MEASUREMENTS	66
	PERFORM IDLE CHANNEL NOISE TESTS	66
K363		
	COMPONENTS	66
1236		
	SOLDERING	66

TABLE III-A

GROUP ID NUMBER AND TITLE: STG182, FIXED TROPOSPHERIC RADIO TECHNICIANS

GROUP SIZE: 45		AVERAGE	TIME I	N JOB:	19 MONTHS
PREDOMINATE PAYGRADES:	E-4/3/5	AVERAGE		-	
PERCENT OF SAMPLE: 2%		AVERAGE	TICF:	45 MON	THS

TASKS		PERCENT MEMBERS PERFORMING
G182	PERFORM RECEIVE SIGNAL LEVEL (RSL) CHECKS	96
G190	PERFORM FREQUENCY MODULATION (FM) QUIETING CURVES	96
1222	PERFORM CORROSION CONTROL	93
G160	PERFORM BASEBAND LOADING	89
	PERFORM TEST TONE LEVEL TESTS	87
	PERFORM PMI ON FM RECEIVERS	82
1230	REMOVE ELECTROMECHANICAL COMPONENTS USING SOLDERING	
	METHODS	80
G156		
	ANALYZERS, TO DETERMINE EQUIPMENT OPERATION	78
G184		
	REDUNDANT EQUIPMENT	78
G189	PERFORM TURN-ON PROCEDURES	78
	ADJUST AUTOMATIC GAIN CONTROL (AGC) COMPONENTS	78
	PERFORM TURN-OFF PROCEDURES	76
M659	PERFORM PMI ON FREQUENCY DIVISION MULTIPLEXERS	73
	PERFORM BASEBAND SWEEPS	71
	PERFORM IDLE CHANNEL NOISE TESTS	71
	ESTABLISH ORDERWIRE CONTACT WITH DISTANT TERMINALS	69
	PERFORM CIRCUIT FAULT ISOLATION PROCEDURES	69
1234	REMOVE ELECTRONIC COMPONENTS, OTHER THAN MICROMINIATURE	
	COMPONENTS, USING SOLDERING METHODS	69
	PERFORM SELECTIVE VOLTMETER NOISE SLOT MEASUREMENTS	67
1245	REPLACE ELECTROMECHANICAL COMPONENTS USING SOLDERING	
	METHODS	67
	PERFORM FREQUENCY RESPONSE TESTS	62
F135	PREPARE NONREPARABLE ITEMS FOR TURN-IN	62

TABLE III-B

GROUP ID NUMBER AND TITLE: GRP039, FIXED MICROWAVE RADIO TECHNICIANS

GROUP SIZE: 214	AVERAGE TIME IN JOB: 24 MONTHS
PREDOMINATE PAYGRADES: E-5/4/6	AVERAGE TAFMS: 92 MONTHS
PERCENT OF SAMPLE: 12%	AVERAGE TICF: 76 MONTHS

G182PERFORM RECEIVE SIGNAL LEVEL (RSL) CHECKS93K363ADJUST RECEIVE INTERMEDIATE FREQUENCY (IF) AMPLIFIER COMPONENTS90K360ADJUST PILOT TONE DETECTOR COMPONENTS90G184PERFORM SWITCHOVERS OF EQUIPMENT SUBASSEMBLIES TO REDUNDANT EQUIPMENT86K353ADJUST DISCRIMINATOR COMPONENTS86G186PERFORM TEST TONE LEVEL TESTS85J222PERFORM TEST TONE LEVEL TESTS85J222PERFORM TURN-ON PROCEDURES84K351ADJUST AUTOMATIC GAIN CONTROL85G188PERFORM TURN-OFF PROCEDURES83J230REMOVE ELECTROMECHANICAL COMPONENTS USING SOLDERING METHODS83K362ADJUST RECEIVE COMBINER COMPONENTS83G165PERFORM CIRCUIT FAULT ISOLATION PROCEDURES80G183PERFORM SELECTIVE VOLTMETER NOISE SLOT MEASUREMENTS79K449REMOVE SOLID-STATE RECEIVE IF AMPLIFIERS79K449REMOVE SOLID-STATE RECEIVE IF AMPLIFIERS77L521ADJUST TRANSMITTER FREQUENCY MODULATION (FM) DETECTORS77Q988ADJUST PILOT TONE OSCILLATOR COMPONENTS76K498REPLACE SOLID-STATE FM DETECTORS (DISCRIMINATORS)76	TASKS		PERCENT MEMBERS PERFORMING
COMPONENTS90K360ADJUST PILOT TONE DETECTOR COMPONENTS90G184PERFORM SWITCHOVERS OF EQUIPMENT SUBASSEMBLIES TO REDUNDANT EQUIPMENT86K353ADJUST DISCRIMINATOR COMPONENTS86G186PERFORM TEST TONE LEVEL TESTS85G187PERFORM CORROSION CONTROL85G188PERFORM TURN-ON PROCEDURES84K351ADJUST AUTOMATIC GAIN CONTROL (AGC) COMPONENTS83I220REMOVE ELECTROMECHANICAL COMPONENTS USING SOLDERING METHODS83K362ADJUST LOCAL OSCILLATOR COMPONENTS83K362ADJUST LOCAL OSCILLATOR COMPONENTS80G165PERFORM CIRCUIT FAULT ISOLATION PROCEDURES80G183PERFORM SELECTIVE VOLTMETER NOISE SLOT MEASUREMENTS79K449REMOVE SOLID-STATE RECEIVE IF AMPLIFIERS79L543ISOLATE MALFUNCTIONS IN SOLID-STATE FM MODULATORS77COMPONENTS7777Q988ADJUST PILOT TONE OSCILLATOR COMPONENTS76K498REPLACE SOLID-STATE FM DETECTORS (DISCRIMINATORS)76	G182	PERFORM RECEIVE SIGNAL LEVEL (RSL) CHECKS	93
K360ADJUST PILOT TONE DETECTOR COMPONENTS90G184PERFORM SWITCHOVERS OF EQUIPMENT SUBASSEMBLIES TO REDUNDANT EQUIPMENT86K353ADJUST DISCRIMINATOR COMPONENTS86G186PERFORM TEST TONE LEVEL TESTS85I222PERFORM CORROSION CONTROL85G189PERFORM TURN-ON PROCEDURES84K351ADJUST AUTOMATIC GAIN CONTROL (AGC) COMPONENTS84G188PERFORM TURN-OFF PROCEDURES83I230REMOVE ELECTROMECHANICAL COMPONENTS USING SOLDERING METHODS83K362ADJUST RECEIVE COMBINER COMPONENTS83Q986ADJUST LOCAL OSCILLATOR COMPONENTS80G165PERFORM CIRCUIT FAULT ISOLATION PROCEDURES80G183PERFORM SELECTIVE VOLTMETER NOISE SLOT MEASUREMENTS79K449REMOVE SOLID-STATE RECEIVE IF AMPLIFIERS79L543ISOLATE MALFUNCTIONS IN SOLID-STATE FM MODULATORS77C0988ADJUST PILOT TONE OSCILLATOR COMPONENTS77Q988ADJUST PILOT TONE OSCILLATOR COMPONENTS76K498REPLACE SOLID-STATE FM DETECTORS (DISCRIMINATORS)76	K363		
G184PERFORM SWITCHOVERS OF EQUIPMENT SUBASSEMBLIES TO REDUNDANT EQUIPMENT86K353ADJUST DISCRIMINATOR COMPONENTS86G186PERFORM TEST TONE LEVEL TESTS85I222PERFORM CORROSION CONTROL85G189PERFORM TURN-ON PROCEDURES84K351ADJUST AUTOMATIC GAIN CONTROL (AGC) COMPONENTS84G188PERFORM TURN-OFF PROCEDURES83I230REMOVE ELECTROMECHANICAL COMPONENTS USING SOLDERING METHODS83K362ADJUST RECEIVE COMBINER COMPONENTS83Q986ADJUST LOCAL OSCILLATOR COMPONENTS80G165PERFORM CIRCUIT FAULT ISOLATION PROCEDURES80G183PERFORM SELECTIVE VOLTMETER NOISE SLOT MEASUREMENTS79K449REMOVE SOLID-STATE RECEIVE IF AMPLIFIERS79L543ISOLATE MALFUNCTIONS IN SOLID-STATE FM MODULATORS78G190PERFORM FREQUENCY MODULATION (FM) QUIETING CURVES77L521ADJUST TRANSMITTER FREQUENCY MODULATION (FM) DETECTORS76K498REPLACE SOLID-STATE FM DETECTORS (DISCRIMINATORS)76			
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G186PERFORM TEST TONE LEVEL TESTS85I222PERFORM CORROSION CONTROL85G189PERFORM TURN-ON PROCEDURES84K351ADJUST AUTOMATIC GAIN CONTROL (AGC) COMPONENTS84G188PERFORM TURN-OFF PROCEDURES83I230REMOVE ELECTROMECHANICAL COMPONENTS USING SOLDERING METHODS83K362ADJUST RECEIVE COMBINER COMPONENTS830986ADJUST LOCAL OSCILLATOR COMPONENTS80G165PERFORM CIRCUIT FAULT ISOLATION PROCEDURES80G183PERFORM SELECTIVE VOLTMETER NOISE SLOT MEASUREMENTS79K449REMOVE SOLID-STATE RECEIVE IF AMPLIFIERS79L543ISOLATE MALFUNCTIONS IN SOLID-STATE FM MODULATORS78G190PERFORM FREQUENCY MODULATION (FM) QUIETING CURVES77L521ADJUST TRANSMITTER FREQUENCY MODULATION (FM) DETECTORS COMPONENTS76K498REPLACE SOLID-STATE FM DETECTORS (DISCRIMINATORS)76			
1222PERFORM CORROSION CONTROL85G189PERFORM TURN-ON PROCEDURES84K351ADJUST AUTOMATIC GAIN CONTROL (AGC) COMPONENTS84G188PERFORM TURN-OFF PROCEDURES831230REMOVE ELECTROMECHANICAL COMPONENTS USING SOLDERING METHODS83K362ADJUST RECEIVE COMBINER COMPONENTS83Q986ADJUST LOCAL OSCILLATOR COMPONENTS80G165PERFORM CIRCUIT FAULT ISOLATION PROCEDURES80G183PERFORM SELECTIVE VOLTMETER NOISE SLOT MEASUREMENTS79K449REMOVE SOLID-STATE RECEIVE IF AMPLIFIERS79L543ISOLATE MALFUNCTIONS IN SOLID-STATE FM MODULATORS78G190PERFORM FREQUENCY MODULATION (FM) QUIETING CURVES77L521ADJUST TRANSMITTER FREQUENCY MODULATION (FM) DETECTORS COMPONENTS77Q988ADJUST PILOT TONE OSCILLATOR COMPONENTS76K498REPLACE SOLID-STATE FM DETECTORS (DISCRIMINATORS)76			
G189PERFORM TURN-ON PROCEDURES84K351ADJUST AUTOMATIC GAIN CONTROL (AGC) COMPONENTS84G188PERFORM TURN-OFF PROCEDURES83I230REMOVE ELECTROMECHANICAL COMPONENTS USING SOLDERING METHODS83K362ADJUST RECEIVE COMBINER COMPONENTS83Q986ADJUST LOCAL OSCILLATOR COMPONENTS80G165PERFORM CIRCUIT FAULT ISOLATION PROCEDURES80G183PERFORM SELECTIVE VOLTMETER NOISE SLOT MEASUREMENTS79K449REMOVE SOLID-STATE RECEIVE IF AMPLIFIERS79L543ISOLATE MALFUNCTIONS IN SOLID-STATE FM MODULATORS77G190PERFORM FREQUENCY MODULATION (FM) QUIETING CURVES77L521ADJUST TRANSMITTER FREQUENCY MODULATION (FM) DETECTORS COMPONENTS77Q988ADJUST PILOT TONE OSCILLATOR COMPONENTS76K498REPLACE SOLID-STATE FM DETECTORS (DISCRIMINATORS)76			
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G188PERFORM TURN-OFF PROCEDURES83I230REMOVE ELECTROMECHANICAL COMPONENTS USING SOLDERING METHODS83K362ADJUST RECEIVE COMBINER COMPONENTS830986ADJUST LOCAL OSCILLATOR COMPONENTS80G165PERFORM CIRCUIT FAULT ISOLATION PROCEDURES80G183PERFORM SELECTIVE VOLTMETER NOISE SLOT MEASUREMENTS79K449REMOVE SOLID-STATE RECEIVE IF AMPLIFIERS79L543ISOLATE MALFUNCTIONS IN SOLID-STATE FM MODULATORS78G190PERFORM FREQUENCY MODULATION (FM) QUIETING CURVES77L521ADJUST TRANSMITTER FREQUENCY MODULATION (FM) DETECTORS770988ADJUST PILOT TONE OSCILLATOR COMPONENTS76K498REPLACE SOLID-STATE FM DETECTORS (DISCRIMINATORS)76			
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K362ADJUST RECEIVE COMBINER COMPONENTS83Q986ADJUST LOCAL OSCILLATOR COMPONENTS80G165PERFORM CIRCUIT FAULT ISOLATION PROCEDURES80G183PERFORM SELECTIVE VOLTMETER NOISE SLOT MEASUREMENTS79K449REMOVE SOLID-STATE RECEIVE IF AMPLIFIERS79L543ISOLATE MALFUNCTIONS IN SOLID-STATE FM MODULATORS78G190PERFORM FREQUENCY MODULATION (FM) QUIETING CURVES77L521ADJUST TRANSMITTER FREQUENCY MODULATION (FM) DETECTORS77Q988ADJUST PILOT TONE OSCILLATOR COMPONENTS76K498REPLACE SOLID-STATE FM DETECTORS (DISCRIMINATORS)76	I230		
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G165PERFORM CIRCUIT FAULT ISOLATION PROCEDURES80G183PERFORM SELECTIVE VOLTMETER NOISE SLOT MEASUREMENTS79K449REMOVE SOLID-STATE RECEIVE IF AMPLIFIERS79L543ISOLATE MALFUNCTIONS IN SOLID-STATE FM MODULATORS78G190PERFORM FREQUENCY MODULATION (FM) QUIETING CURVES77L521ADJUST TRANSMITTER FREQUENCY MODULATION (FM) DETECTORS77Q988ADJUST PILOT TONE OSCILLATOR COMPONENTS76K498REPLACE SOLID-STATE FM DETECTORS (DISCRIMINATORS)76			
G183PERFORM SELECTIVE VOLTMETER NOISE SLOT MEASUREMENTS79K449REMOVE SOLID-STATE RECEIVE IF AMPLIFIERS79L543ISOLATE MALFUNCTIONS IN SOLID-STATE FM MODULATORS78G190PERFORM FREQUENCY MODULATION (FM) QUIETING CURVES77L521ADJUST TRANSMITTER FREQUENCY MODULATION (FM) DETECTORS77Q988ADJUST PILOT TONE OSCILLATOR COMPONENTS76K498REPLACE SOLID-STATE FM DETECTORS (DISCRIMINATORS)76			
K449REMOVE SOLID-STATE RECEIVE IF AMPLIFIERS79L543ISOLATE MALFUNCTIONS IN SOLID-STATE FM MODULATORS78G190PERFORM FREQUENCY MODULATION (FM) QUIETING CURVES77L521ADJUST TRANSMITTER FREQUENCY MODULATION (FM) DETECTORS COMPONENTS77Q988ADJUST PILOT TONE OSCILLATOR COMPONENTS76K498REPLACE SOLID-STATE FM DETECTORS (DISCRIMINATORS)76			
L543ISOLATE MALFUNCTIONS IN SOLID-STATE FM MODULATORS78G190PERFORM FREQUENCY MODULATION (FM) QUIETING CURVES77L521ADJUST TRANSMITTER FREQUENCY MODULATION (FM) DETECTORS COMPONENTS77Q988ADJUST PILOT TONE OSCILLATOR COMPONENTS76K498REPLACE SOLID-STATE FM DETECTORS (DISCRIMINATORS)76			
G190PERFORM FREQUENCY MODULATION (FM) QUIETING CURVES77L521ADJUST TRANSMITTER FREQUENCY MODULATION (FM) DETECTORS COMPONENTS77Q988ADJUST PILOT TONE OSCILLATOR COMPONENTS K49876K498REPLACE SOLID-STATE FM DETECTORS (DISCRIMINATORS)76			
L521ADJUST TRANSMITTER FREQUENCY MODULATION (FM) DETECTORS COMPONENTS77Q988ADJUST PILOT TONE OSCILLATOR COMPONENTS K49876K498REPLACE SOLID-STATE FM DETECTORS (DISCRIMINATORS)76			
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Q988ADJUST PILOT TONE OSCILLATOR COMPONENTS76K498REPLACE SOLID-STATE FM DETECTORS (DISCRIMINATORS)76	L521		
K498 REPLACE SOLID-STATE FM DETECTORS (DISCRIMINATORS) 76			
K44/ REMOVE SULID-STATE PILOT TONE DETECTORS 76	K447	REMOVE SOLID-STATE PILOT TONE DETECTORS	76

TABLE III-C

GROUP ID NUMBER AND TITLE: STG371, FIXED RADIO VOICE FREQUENCY MULTIPLEXER TECHNICIANS

GROUP SIZE: 15		AVERAGE TIME IN JOB: 13 MONTHS
PREDOMINATE PAYGRADES:	E-4/6/2	AVERAGE TAFMS: 67 MONTHS
PERCENT OF SAMPLE: 1%		AVERAGE TICF: 37 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
G186	PERFORM TEST TONE LEVEL TESTS	100
M629	ALIGN FREQUENCY DIVISION MULTIPLEXERS	100
M659	PERFORM PMI ON FREQUENCY DIVISION MULTIPLEXERS	93
G172	PERFORM IDLE CHANNEL NOISE TESTS	93
G182	PERFORM RECEIVE SIGNAL LEVEL (RSL) CHECKS	93
1228	REMOVE AND REPLACE DESICCANTS	93
	PERFORM CORROSION CONTROL	93
	ADJUST PILOT GENERATOR COMPONENTS	93
K360	ADJUST PILOT TONE DETECTOR COMPONENTS	93
N730	ADJUST LOOP CURRENT CONTROL PANEL COMPONENTS	93
K363		
	COMPONENTS	93
	PERFORM PMI ON FM RECEIVERS	87
	ADJUST E-AND-M SIGNALING AND CONTROL CIRCUIT COMPONENTS	87
L521	ADJUST TRANSMITTER FREQUENCY MODULATION (FM) MODULATOR	07
	COMPONENTS	87
M627	ADJUST TWO WIRE/FOUR WIRE CONVERSION AND TERMINATION	~ 7
	CIRCUIT COMPONENTS	87
	PERFORM TURN-OFF PROCEDURES	87
	ADJUST DISCRIMINATOR COMPONENTS	87
	ALIGN FM RECEIVERS	87
	ADJUST RECEIVE COMBINER COMPONENTS	87
K36/	ADJUST SQUELCH CIRCUIT COMPONENTS	87 87
G162	PERFORM BIT ERROR RATE TESTS	87
	ESTABLISH ORDERWIRE CONTACT WITH DISTANT TERMINALS	80
G184	PERFORM SWITCHOVERS OF EQUIPMENT SUBASSEMBLIES TO REDUNDANT EQUIPMENT	00
c 107	KEDUNDANI EUUIPMENI DEDEODNI TRANSMISSION LEVEL TESTS	80 80
	PERFORM TRANSMISSION LEVEL TESTS	80
	PERFORM CIRCUIT FAULT ISOLATION PROCEDURES PERFORM PMI ON DIGITAL RECEIVERS	80
K4 18	PERFORM PMI UN DIGITAL RECEIVERS	00

TABLE III-D

GROUP ID NUMBER AND TITLE: STG244, FIXED RADIO TELETYPE MULTIPLEXER TECHNICIANS

GROUP SIZE: 72		AVERAGE TIME IN JOB: 18 MONTHS
PREDOMINATE PAYGRADES:	E-4/5/3	AVERAGE TAFMS: 64 MONTHS
PERCENT OF SAMPLE: 4%		AVERAGE TICF: 48 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
N727		96
N726	ADJUST FREQUENCY SHIFT CONVERTER COMPONENTS	93
N738	ISOLATE MALFUNCTIONS IN FREQUENCY SHIFT KEYERS	92
N765	REPAIR MALFUNCTIONS IN FREQUENCY SHIFT KEYERS	90
N752	REMOVE FREQUENCY SHIFT KEYERS	90
N737	ISOLATE MALFUNCTIONS IN FREQUENCY SHIFT CONVERTERS	89
N764		89
N751		89
G182	PERFORM RECEIVE SIGNAL LEVEL (RSL) CHECKS	89
G186		88
1222	PERFORM CORROSION CONTROL	88
G156	ANALYZERS, TO DETERMINE EQUIPMENT OPERATION	86
I2 34		
	COMPONENTS, USING SOLDERING METHODS	86
G165		82
N734		82
Q1 186	REPAIR MALFUNCTIONS IN PATCH PANELS	81
1249		
	COMPONENTS, USING SOLDERING METHODS	81
N777		81
1230		
	METHODS	79
	PERFORM TURN-OFF PROCEDURES	79
1236		
_	SOLDERING	78
N776		76
G189	PERFORM TURN-ON PROCEDURES	76
	PERFORM FREQUENCY MODULATION (FM) QUIETING CURVES	75
N748	PERFORM PMI ON TELETYPE MULTIPLEXERS	74

TABLE IV

GROUP ID NUMBER AND TITLE: STG019, SUPERVISORY/MANAGEMENT PERSONNEL

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GROUP SIZE: 482	AVERAGE TIME IN JOB: 17 MONTHS
PREDOMINATE PAYGRADES: E-5/6/7	AVERAGE TAFMS: 145 MONTHS
PERCENT OF SAMPLE: 26%	AVERAGE TICF: 119 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
B41	WRITE CORRESPONDENCE	78
A4	DETERMINE WORK PRIORITIES	64
B29	COUNSEL PERSONNEL	55
E92	MAINTAIN CORRESPONDENCE FILES	55
E 106	PREPARE IN-HOUSE DOCUMENTS, SUCH AS CHECKLISTS	52
	PREPARE APR	51
D85	MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS	50
	EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS	49
	DEVELOP WORK PROCEDURES	49
A16	PLAN BRIEFINGS	48
	REVIEW TABLE OF ALLOWANCES (TA)	47
C51	EVALUATE INSPECTION REPORTS	47
	DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR	
	DIRECTIVES	46
D 74		
	INFORMATION	45
	EVALUATE CAPABILITY OF EQUIPMENT	44
	DEVELOP TRAINING PLANS	44
	ESTABLISH OFFICE INSTRUCTIONS (OI)	44
A3		
	AND SUPPLIES	44
E99		42
	SCHEDULE LEAVES	41
D73	CONDUCT OJT	41
	PLAN WORK ASSIGNMENTS	40
	ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES	40
	SCHEDULE INSPECTIONS	39
	RESEARCH SUPPLY CATALOGS	39
E98	MAINTAIN SELF-INSPECTION GUIDES	36

TABLE IV-A

GROUP ID NUMBER AND TITLE: STG194, PLANS AND REQUIREMENTS MANAGERS

GROUP SIZE: 22		AVERAGE TIME IN JOB: 19 MONTHS
PREDOMINATE PAYGRADES:	E-6/7/5	AVERAGE TAFMS: 180 MONTHS
PERCENT OF SAMPLE: 1%		AVERAGE TICF: 149 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
B41	WRITE CORRESPONDENCE	95
C63	WRITE STAFF STUDIES, SURVEYS, AND SPECIAL REPORTS	68
A 16	PLAN BRIEFINGS	64
E92		55
B30	DIRECT DESTRUCTION OF CLASSIFIED MATERIALS	41
B30 E91	DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR	
	DIRECTIVES	36
A4	DETERMINE WORK PRIORITIES	32
C45	EVALUATE CAPABILITY OF EQUIPMENT	27
E112	PREPARE STATUS REPORTS	27
F139		27
C42		27
8A	DRAFT SUPPLEMENTS AND CHANGES TO DIRECTIVES	23
E94	MAINTAIN HISTORICAL RECORDS	23
C48	EVALUATE CONTRACT DATA REQUIREMENT LISTINGS (CDRL)	23
D74	DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL	
	INFORMATION	23
C50		23
F138	RESEARCH SUPPLY CATALOGS	23
C56		18
B37		18
D73		18
B27		18
C44	EVALUATE BUDGET REQUIREMENTS	18
	SECURE CLASSIFIED MATERIALS	18
S1345	INITIATE MESSAGES	14

TABLE IV-B

GROUP ID NUMBER AND TITLE: STG240, MAINTENANCE TRAINING MANAGERS

GROUP SIZE: 12		AVERAGE TIME IN JOB: 19 MONTHS
PREDOMINATE PAYGRADES:	E-4/5/6	AVERAGE TAFMS: 124 MONTHS
PERCENT OF SAMPLE: 1%		AVERAGE TICF: 104 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
D 79	DEVELOP TRAINING PLANS	92
	MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS	92
	WRITE CORRESPONDENCE	83
	EVALUATE TRAINING METHODS	75
	DIRECT TRAINING PROGRAMS, OTHER THAN OJT	67
	PROCURE TRAINING AIDS, SPACE, AND EQUIPMENT	67
D83	EVALUATE PROGRESS OF STUDENTS	58
D 76		
	OTHER THAN OJT OR RESIDENT COURSE PROGRAMS	58
	DETERMINE RESIDENT COURSE TRAINING REQUIREMENTS	58
	ESTABLISH OFFICE INSTRUCTIONS (OI)	58
	DIRECT OJT PROGRAMS	50
	SCHEDULE INSPECTIONS	50
	EVALUATE INSPECTION REPORTS	50
D77	DETERMINE OJT TRAINING REQUIREMENTS	50
	MAINTAIN CORRESPONDENCE FILES	50
	MAINTAIN PUBLICATION FILES	50
	PREPARE REQUISITIONS FOR PUBLICATIONS	50
D89	WRITE TRAINING REPORTS	50
	COUNSEL PERSONNEL	42
C61	SELECT INDIVIDUALS FOR SPECIALIZED TRAINING	42
E98	MAINTAIN SELF-INSPECTION GUIDES	42
	CONDUCT UPGRADE TRAINING	33
E91		
	DIRECTIVES	33
	PREPARE IN-HOUSE DOCUMENTS, SUCH AS CHECKLISTS	33
A4	DETERMINE WORK PRIORITIES	33

TABLE IV-C

GROUP ID NUMBER AND TITLE: STG211, QUALITY CONTROL MANAGERS

GROUP SIZE: 62		AVERAGE TIME IN JOB: 14 MONTHS
PREDOMINATE PAYGRADES:	E ~6/ 5/7	AVERAGE TAFMS: 150 MONTHS
PERCENT OF SAMPLE: 3%		AVERAGE TICF: 128 MONTHS

C51EVALUATE INSPECTION REPORTS90C47EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS85E105PREPARE EVALUATION REPORTS82B41WRITE CORRESPONDENCE77A24SCHEDULE INSPECTIONS73E103PREPARE ACTIVITY REPORTS71C45EVALUATE CAPABILITY OF EQUIPMENT65E104PREPARE DEFICIENCY REPORTS65E91DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR DIRECTIVES61E106PREPARE IN-HOUSE DOCUMENTS, SUCH AS CHECKLISTS60F92MAINTAIN CORRESPONDENCE FILES53C54EVALUATE SAFETY PROGRAMS52F134PREPARE MATERIEL DEFICIENCY REPORTS (MDR)50A8DRAFT SUPPLEMENTS AND CHANGES TO DIRECTIVES48C53EVALUATE PROCEDURES FOR STORAGE, INVENTORY, AND INSPECTION OF PROPERTY ITEMS47A16PLAN BRIEFINGS42D74DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL INFORMATION40D84EVALUATE TRAINING METHODS39C63WRITE STAFF STUDIES, SURVEYS, AND SPECIAL REPORTS35E100MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES32267MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS31C56EVALUATE SUGGESTIONS31	TASKS	;	PERCENT MEMBERS PERFORMING
E105PREPARE EVALUATION REPORTS82B41WRITE CORRESPONDENCE77A24SCHEDULE INSPECTIONS73E103PREPARE ACTIVITY REPORTS71C45EVALUATE CAPABILITY OF EQUIPMENT65E104PREPARE DEFICIENCY REPORTS65E91DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR61DIRECTIVES61E106PREPARE IN-HOUSE DOCUMENTS, SUCH AS CHECKLISTS60F92MAINTAIN CORRESPONDENCE FILES53C54EVALUATE SAFETY PROGRAMS52F134PREPARE MATERIEL DEFICIENCY REPORTS (MDR)50A8DRAFT SUPPLEMENTS AND CHANGES TO DIRECTIVES48C53EVALUATE PROCEDURES FOR STORAGE, INVENTORY, AND INSPECTION67OF PROPERTY ITEMS47A16PLAN BRIEFINGS42D74DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL40D84EVALUATE TRAINING METHODS39C63WRITE STAFF STUDIES, SURVEYS, AND SPECIAL REPORTS35E100MAINTAIN TECHNICAL ORDER (T0) FILES34D85MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES32E97MAINTAIN PUBLICATION FILES31	C51	EVALUATE INSPECTION REPORTS	
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A24SCHEDULE INSPECTIONS73E103PREPARE ACTIVITY REPORTS71C45EVALUATE CAPABILITY OF EQUIPMENT65E104PREPARE DEFICIENCY REPORTS65E91DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR DIRECTIVES61E106PREPARE IN-HOUSE DOCUMENTS, SUCH AS CHECKLISTS60F92MAINTAIN CORRESPONDENCE FILES53C54EVALUATE SAFETY PROGRAMS52F134PREPARE MATERIEL DEFICIENCY REPORTS (MDR)50A8DRAFT SUPPLEMENTS AND CHANGES TO DIRECTIVES48C53EVALUATE PROCEDURES FOR STORAGE, INVENTORY, AND INSPECTION OF PROPERTY ITEMS47A16PLAN BRIEFINGS42D74DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL INFORMATION40D84EVALUATE TRAINING METHODS39C63WRITE STAFF STUDIES, SURVEYS, AND SPECIAL REPORTS35E100MAINTAIN TECHNICAL ORDER (TO) FILES34D85MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES32E97MAINTAIN PUBLICATION FILES31	E 105	PREPARE EVALUATION REPORTS	
E103PREPARE ACTIVITY REPORTS71C45EVALUATE CAPABILITY OF EQUIPMENT65E104PREPARE DEFICIENCY REPORTS65E91DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR DIRECTIVES61E106PREPARE IN-HOUSE DOCUMENTS, SUCH AS CHECKLISTS60F92MAINTAIN CORRESPONDENCE FILES53C54EVALUATE SAFETY PROGRAMS52F134PREPARE MATERIEL DEFICIENCY REPORTS (MDR)50A8DRAFT SUPPLEMENTS AND CHANGES TO DIRECTIVES48C53EVALUATE PROCEDURES FOR STORAGE, INVENTORY, AND INSPECTION OF PROPERTY ITEMS47A16PLAN BRIEFINGS42D74DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL INFORMATION40D84EVALUATE TRAINING METHODS39C63WRITE STAFF STUDIES, SURVEYS, AND SPECIAL REPORTS35E100MAINTAIN TECHNICAL ORDER (TO) FILES34D85MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES31			
C45EVALUATE CAPABILITY OF EQUIPMENT65E104PREPARE DEFICIENCY REPORTS65E91DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR DIRECTIVES61E106PREPARE IN-HOUSE DOCUMENTS, SUCH AS CHECKLISTS60F92MAINTAIN CORRESPONDENCE FILES53C54EVALUATE SAFETY PROGRAMS52F134PREPARE MATERIEL DEFICIENCY REPORTS (MDR)50A8DRAFT SUPPLEMENTS AND CHANGES TO DIRECTIVES48C53EVALUATE PROCEDURES FOR STORAGE, INVENTORY, AND INSPECTION OF PROPERTY ITEMS47A16PLAN BRIEFINGS42D74DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL INFORMATION40D84EVALUATE TRAINING METHODS39C63WRITE STAFF STUDIES, SURVEYS, AND SPECIAL REPORTS35E100MAINTAIN TECHNICAL ORDER (TO) FILES34D85MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES31	A24	SCHEDULE INSPECTIONS	
E104PREPARE DEFICIENCY REPORTS65E91DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR DIRECTIVES61E106PREPARE IN-HOUSE DOCUMENTS, SUCH AS CHECKLISTS60F92MAINTAIN CORRESPONDENCE FILES53C54EVALUATE SAFETY PROGRAMS52F134PREPARE MATERIEL DEFICIENCY REPORTS (MDR)50A8DRAFT SUPPLEMENTS AND CHANGES TO DIRECTIVES48C53EVALUATE PROCEDURES FOR STORAGE, INVENTORY, AND INSPECTION OF PROPERTY ITEMS47A16PLAN BRIEFINGS42D74DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL INFORMATION40D84EVALUATE TRAINING METHODS39C63WRITE STAFF STUDIES, SURVEYS, AND SPECIAL REPORTS35E100MAINTAIN TECHNICAL ORDER (TO) FILES34D85MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES31			
E91DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR DIRECTIVES61E106PREPARE IN-HOUSE DOCUMENTS, SUCH AS CHECKLISTS60F92MAINTAIN CORRESPONDENCE FILES53C54EVALUATE SAFETY PROGRAMS52F134PREPARE MATERIEL DEFICIENCY REPORTS (MDR)50A8DRAFT SUPPLEMENTS AND CHANGES TO DIRECTIVES48C53EVALUATE PROCEDURES FOR STORAGE, INVENTORY, AND INSPECTION OF PROPERTY ITEMS47A16PLAN BRIEFINGS42D74DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL INFORMATION40D84EVALUATE TRAINING METHODS39C63WRITE STAFF STUDIES, SURVEYS, AND SPECIAL REPORTS35E100MAINTAIN TECHNICAL ORDER (TO) FILES34D85MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES31	C45	EVALUATE CAPABILITY OF EQUIPMENT	
DIRECTIVES61E106PREPARE IN-HOUSE DOCUMENTS, SUCH AS CHECKLISTS60F92MAINTAIN CORRESPONDENCE FILES53C54EVALUATE SAFETY PROGRAMS52F134PREPARE MATERIEL DEFICIENCY REPORTS (MDR)50A8DRAFT SUPPLEMENTS AND CHANGES TO DIRECTIVES48C53EVALUATE PROCEDURES FOR STORAGE, INVENTORY, AND INSPECTION47OF PROPERTY ITEMS47A16PLAN BRIEFINGS42D74DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL40D84EVALUATE TRAINING METHODS39C63WRITE STAFF STUDIES, SURVEYS, AND SPECIAL REPORTS35E100MAINTAIN TECHNICAL ORDER (TO) FILES34D85MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES31			65
E106PREPARE IN-HOUSE DOCUMENTS, SUCH AS CHECKLISTS60F92MAINTAIN CORRESPONDENCE FILES53C54EVALUATE SAFETY PROGRAMS52F134PREPARE MATERIEL DEFICIENCY REPORTS (MDR)50A8DRAFT SUPPLEMENTS AND CHANGES TO DIRECTIVES48C53EVALUATE PROCEDURES FOR STORAGE, INVENTORY, AND INSPECTION OF PROPERTY ITEMS47A16PLAN BRIEFINGS42D74DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL INFORMATION40D84EVALUATE TRAINING METHODS39C63WRITE STAFF STUDIES, SURVEYS, AND SPECIAL REPORTS35E100MAINTAIN TECHNICAL ORDER (TO) FILES34D85MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES31	E91		
F92MAINTAIN CORRESPONDENCE FILES53C54EVALUATE SAFETY PROGRAMS52F134PREPARE MATERIEL DEFICIENCY REPORTS (MDR)50A8DRAFT SUPPLEMENTS AND CHANGES TO DIRECTIVES48C53EVALUATE PROCEDURES FOR STORAGE, INVENTORY, AND INSPECTION OF PROPERTY ITEMS47A16PLAN BRIEFINGS42D74DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL INFORMATION40D84EVALUATE TRAINING METHODS39C63WRITE STAFF STUDIES, SURVEYS, AND SPECIAL REPORTS35E100MAINTAIN TECHNICAL ORDER (TO) FILES34D85MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES31			
C54EVALUATE SAFETY PROGRAMS52F134PREPARE MATERIEL DEFICIENCY REPORTS (MDR)50A8DRAFT SUPPLEMENTS AND CHANGES TO DIRECTIVES48C53EVALUATE PROCEDURES FOR STORAGE, INVENTORY, AND INSPECTION OF PROPERTY ITEMS47A16PLAN BRIEFINGS42D74DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL INFORMATION40D84EVALUATE TRAINING METHODS39C63WRITE STAFF STUDIES, SURVEYS, AND SPECIAL REPORTS35E100MAINTAIN TECHNICAL ORDER (TO) FILES34D85MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES31			
F134PREPARE MATERIEL DEFICIENCY REPORTS (MDR)50A8DRAFT SUPPLEMENTS AND CHANGES TO DIRECTIVES48C53EVALUATE PROCEDURES FOR STORAGE, INVENTORY, AND INSPECTION OF PROPERTY ITEMS47A16PLAN BRIEFINGS42D74DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL INFORMATION40D84EVALUATE TRAINING METHODS39C63WRITE STAFF STUDIES, SURVEYS, AND SPECIAL REPORTS35E100MAINTAIN TECHNICAL ORDER (TO) FILES34D85MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES31	E92	MAINTAIN CORRESPONDENCE FILES	
A8DRAFT SUPPLEMENTS AND CHANGES TO DIRECTIVES48C53EVALUATE PROCEDURES FOR STORAGE, INVENTORY, AND INSPECTION OF PROPERTY ITEMS47A16PLAN BRIEFINGS42D74DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL INFORMATION40D84EVALUATE TRAINING METHODS39C63WRITE STAFF STUDIES, SURVEYS, AND SPECIAL REPORTS35E100MAINTAIN TECHNICAL ORDER (TO) FILES34D85MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES31			
C53EVALUATE PROCEDURES FOR STORAGE, INVENTORY, AND INSPECTION OF PROPERTY ITEMS47A16PLAN BRIEFINGS42D74DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL INFORMATION40D84EVALUATE TRAINING METHODS39C63WRITE STAFF STUDIES, SURVEYS, AND SPECIAL REPORTS35E100MAINTAIN TECHNICAL ORDER (TO) FILES34D85MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES31			
OF PROPERTY ITEMS47A16PLAN BRIEFINGS42D74DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL40INFORMATION40D84EVALUATE TRAINING METHODS39C63WRITE STAFF STUDIES, SURVEYS, AND SPECIAL REPORTS35E100MAINTAIN TECHNICAL ORDER (TO) FILES34D85MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES32E97MAINTAIN PUBLICATION FILES31	A8	DRAFT SUPPLEMENTS AND CHANGES TO DIRECTIVES	48
A16PLAN BRIEFINGS42D74DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL INFORMATION40D84EVALUATE TRAINING METHODS39C63WRITE STAFF STUDIES, SURVEYS, AND SPECIAL REPORTS35E100MAINTAIN TECHNICAL ORDER (TO) FILES34D85MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES32E97MAINTAIN PUBLICATION FILES31	C53		
D74DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL INFORMATION40D84EVALUATE TRAINING METHODS39C63WRITE STAFF STUDIES, SURVEYS, AND SPECIAL REPORTS35E100MAINTAIN TECHNICAL ORDER (TO) FILES34D85MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES32E97MAINTAIN PUBLICATION FILES31			
INFORMATION40D84EVALUATE TRAINING METHODS39C63WRITE STAFF STUDIES, SURVEYS, AND SPECIAL REPORTS35E100MAINTAIN TECHNICAL ORDER (TO) FILES34D85MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES32E97MAINTAIN PUBLICATION FILES31			42
D84EVALUATE TRAINING METHODS39C63WRITE STAFF STUDIES, SURVEYS, AND SPECIAL REPORTS35E 100MAINTAIN TECHNICAL ORDER (TO) FILES34D85MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES32E97MAINTAIN PUBLICATION FILES31	D74		
C63WRITE STAFF STUDIES, SURVEYS, AND SPECIAL REPORTS35E100MAINTAIN TECHNICAL ORDER (TO) FILES34D85MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES32E97MAINTAIN PUBLICATION FILES31			
E100MAINTAIN TECHNICAL ORDER (TO) FILES34D85MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES32E97MAINTAIN PUBLICATION FILES31			
D85MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS32A6DEVELOP WORK PROCEDURES32E97MAINTAIN PUBLICATION FILES31			
A6DEVELOP WORK PROCEDURES32E97MAINTAIN PUBLICATION FILES31			
E97 MAINTAIN PUBLICATION FILES 31	D85	MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS	
	A6	DEVELOP WORK PROCEDURES	
C56 EVALUATE SUGGESTIONS 31			
	C56	EVALUATE SUGGESTIONS	31

TABLE IV-D

GROUP ID NUMBER AND TITLE: STG156, LAND MOBILE RADIO MANAGERS

GROUP SIZE: 46		AVERAGE	TIME IN	JOB: 16 MONTHS
PREDOMINATE PAYGRADES:	E-5/4/6	AVERAGE	TAFMS:	113 MONTHS
PERCENT OF SAMPLE: 3%		AVERAGE	TICF:	91 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
	REVIEW TABLE OF ALLOWANCES (TA)	91
	DRAFT BUDGET REQUIREMENTS	85
F117		
	AGENCIES	83
B41		78
	MAINTAIN CORRESPONDENCE FILES	76
	MAINTAIN HISTORICAL RECORDS	70
	DETERMINE WORK PRIORITIES	65
	DRAFT SUPPLEMENTS AND CHANGES TO DIRECTIVES	65
	EVALUATE CAPABILITY OF EQUIPMENT	63
	RESEARCH SUPPLY CATALOGS	61
	MAINTAIN INVENTORY RECORDS	57
C44	EVALUATE BUDGET REQUIREMENTS	52
C47	EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS	48
	COORDINATE STOCK NUMBERS WITH VENDORS OR OTHER AGENCIES	48
F127	MAINTAIN EQUIPMENT ACCOUNTABILITY RECORDS	48
	PREPARE NONREPARABLE ITEMS FOR TURN-IN	48
	MAINTAIN PUBLICATION FILES	46
A24	SCHEDULE INSPECTIONS	46
F116	COORDINATE LOCAL PURCHASES WITH OFFICE OF PRIMARY	
	RESPONSIBILITY (OPR)	43
	PREPARE IN-HOUSE DOCUMENTS, SUCH AS CHECKLISTS	41
E91		
	DIRECTIVES	41
	PREPARE REPARABLE ITEMS FOR TURN-IN	39
E98		39
E113	PREPARE SUPPLY JUSTIFICATIONS	37

TABLE IV-E

GROUP ID NUMBER AND TITLE: GRP038, JOB CONTROL SUPERVISORS

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GROUP SIZE: 57		AVERAGE TIME IN JOB: 13 MONTHS
PREDOMINATE PAYGRADES:	E-4/5/6	AVERAGE TAFMS: 94 MONTHS
PERCENT OF SAMPLE: 3%		AVERAGE TICF: 85 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
E99	MAINTAIN STATUS BOARDS AND CHARTS	84
A4		77
A16		77
	CONDUCT OJT	63
E 106		61
E112		58
B28		
	APPROPRIATE AGENCIES	58
B31		47
	COUNSEL PERSONNEL	47
D85	MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS	46
E102	MAKE ENTRIES ON MAINTENANCE FORMS	42
C60	PREPARE APR	42
	WRITE CORRESPONDENCE	40
A10	ESTABLISH OFFICE INSTRUCTIONS (OI)	39
	MAINTAIN MAINTENANCE DATA USING CAMS	37
F117		
	AGENCIES	37
D74	DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL	
	INFORMATION	37
B40	MAINTAIN CONTINGENCY PLANS	37
A6	DEVELOP WORK PROCEDURES	37
E90	COMPILE MAINTENANCE DATA USING COMPUTER AUTOMATIC	
	MAINTENANCE SYSTEMS (CAMS)	35
D68		35
E97		33
D79	DEVELOP TRAINING PLANS	33

TABLE IV-F

GROUP ID NUMBER AND TITLE: GRPO40, NCOIC WIDEBAND COMMUNICATIONS EQUIPMENT

GROUP SIZE: 144		AVERAGE	TIME IN	JOB: 18 MONTHS
PREDOMINATE PAYGRADES:	E-6/7/5	AVERAGE	TAFMS:	170 MONTHS
PERCENT OF SAMPLE: 8%		AVERAGE	TICF:	136 MONTHS

THE FOLLOWING ARE IN DESCENDING ORDER BY PERCENT MEMBERS PERFORMING:

•

TASKS		PERCENT MEMBERS PERFORMING
B29	COUNSEL PERSONNEL	97
B41	WRITE CORRESPONDENCE	96
A4	DETERMINE WORK PRIORITIES	94
A20	PLAN WORK ASSIGNMENTS	88
C60	PREPARE APR	88
A3	DETERMINE REQUIREMENTS FOR SPACE, PERSONNEL, EQUIPMENT,	
	AND SUPPLIES	85
A25		84
A6		83
C5 1	EVALUATE INSPECTION REPORTS	83
C47		81
D85	MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS	81
	ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES	80
	MAINTAIN CORRESPONDENCE FILES	78
	REVIEW TABLE OF ALLOWANCES (TA)	78
	PREPARE IN-HOUSE DOCUMENTS, SUCH AS CHECKLISTS	78
D74	DEMONSTRATE HOW TO LOCATE TECHNICAL OR NONTECHNICAL	
	INFORMATION	76
	ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL	76
	DEVELOP TRAINING PLANS	75
Al		75
	INDORSE AIRMAN PERFORMANCE REPORTS (APR)	72
A10		72
	ASSIGN ON-THE-JOB TRAINING (OJT) TRAINERS	72
F138 E91	RESEARCH SUPPLY CATALOGS DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR	70
	DIRECTIVES	69

TABLE IV-G

GROUP ID NUMBER AND TITLE: STG302, MOBILITY SUPERVISORS

GROUP SIZE: 11 PREDOMINATE PAYGRADES: E-6/5/4 PERCENT OF SAMPLE: 1%

AVERAGE TIME IN JOB: 26 MONTHS AVERAGE TAFMS: 138 MONTHS AVERAGE TICF: 110 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
A4	DETERMINE WORK PRIORITIES	100
R1263		100
R1322		100
R1318	POSITION VEHICLES	100
R1275	FIRE M-16 WEAPONS	100
R1319	PREPARE CAMOUFLAGE NETTING	91
R 1299	OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR	
	PASSENGER VEHICLES	91
R 1283	INSTALL CAMOUFLAGE NETTING	91
R1317	POSITION SHELTERS	91
B41	WRITE CORRESPONDENCE	82
R1264		82
	PERFORM SITE SECURITY DUTIES	82
	PAINT EQUIPMENT AND FACILITIES	82
R 1282		82
R1311		82
A20		73
E98		73
A24		73
E92	MAINTAIN CORRESPONDENCE FILES	73
E99		73
D85	MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS	73
R1262	ANCHOR EQUIPMENT VANS AND SHELTERS	73
C60	PREPARE APR	73
R1321	REMOVE CABLING BETWEEN SITE VANS	73
B29	COUNSEL PERSONNEL	73
AI	ASSIGN PERSONNEL TO DUTY POSITIONS	73

TABLE V

GROUP ID NUMBER AND TITLE: STG372, TECHNICAL TRAINING INSTRUCTORS

GROUP SIZE: 41		AVERAGE	TIME I	N JOB:	27 MONTHS
PREDOMINATE PAYGRADES:	E-5/6/4	AVERAGE	TAFMS:	114 MO	NTHS
PERCENT OF SAMPLE: 2%		AVERAGE	TICF:	99 MON	THS

TASKS		PERCENT MEMBERS PERFORMING
D87	SCORE TESTS	100
	CONDUCT RESIDENT COURSE CLASSROOM TRAINING	95
D64	ADMINISTER TESTS	95
D83	EVALUATE PROGRESS OF STUDENTS	85
D 88	WRITE TEST QUESTIONS	73
B29	COUNSEL PERSONNEL	71
D85	MAINTAIN TRAINING RECORDS, CHARTS, AND GRAPHS	68
	CONDUCT REMEDIAL TRAINING	68
D74		
	INFORMATION	63
	EVALUATE TRAINING METHODS	54
D78	DEVELOP RESIDENT COURSE OR CAREER DEVELOPMENT COURSE	
	(CDC) CURRICULUM MATERIALS	37
	PROCURE TRAINING AIDS, SPACE, AND EQUIPMENT	34
	MAINTAIN TECHNICAL ORDER (TO) FILES	27
D79		24
	PERFORM TURN-ON PROCEDURES	24
	PERFORM TURN-OFF PROCEDURES	24
D68		22
	PERFORM TEST TONE LEVEL TESTS	22
E91		
	DIRECTIVES	20
	WRITE CORRESPONDENCE	20
	PERFORM RECEIVE SIGNAL LEVEL (RSL) CHECKS	20
	PERFORM IDLE CHANNEL NOISE TESTS	20
C47	EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS	17

TABLE VI

GROUP ID NUMBER AND TITLE: STG138, CLOSED-CIRCUIT TELEVISION (CCTV) TECHNICIANS

GROUP SIZE: 10		AVERAGE TIME IN JOB: 16 MONTHS
PREDOMINATE PAYGRADES:	E-5/6/4	AVERAGE TAFMS: 106 MONTHS
PERCENT OF SAMPLE: 1%		AVERAGE TICF: 79 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
T 1404	FUNCTIONALLY TEST VIDEO DISPLAY MONITORS	100
T1400	ADJUST VIDEO CIRCUITS	100
T1401	ADJUST VIDEO DISPLAY MONITORS	90
T1423	TEST VIDEO CIRCUITS	90
T1406	ISOLATE CAMERA FAULTS	90
	ADJUST VIDEO DISTRIBUTION AMPLIFIERS	90
	ALIGN CAMERA CIRCUITS	90
	REPAIR VIDEO DISPLAY MONITORS	80
T1415		80
T1407		80
	ADJUST VIDEO BOARDS	80
	TEST DISTRIBUTION AMPLIFIERS	70
T1421	TEST RECEIVE EQUALIZERS	70
	ADJUST BALANCED LINE MATCHING AMPLIFIERS	70
T1397		70
T1408		70
P835		70
C60		70
F 137	PREPARE REQUISITIONS FOR PARTS, TOOLS, AND SUPPLIES	70
	TEST BALANCED LINE MATCHING AMPLIFIERS	60 60
T1422		60
T1395	ADJUST DISTRIBUTION AMPLIFIERS ADJUST TRANSMIT EQUALIZERS	60 60
T1398		60
T1416		60
D85		60
B31	DIRECT MAINTENANCE CREW ACTIVITIES	60
031	DINEGT HAINTENANCE ONEW ACTIVITED	

TABLE VII

GROUP ID NUMBER AND TITLE: STG206, TELETYPE MULTIPLEXER SYSTEM TECHNICIANS

GROUP SIZE: 11		AVERAGE TIME IN JOB: 22 MONTHS
PREDOMINATE PAYGRADES:	E-4/3/5	AVERAGE TAFMS: 64 MONTHS
PERCENT OF SAMPLE: 1%		AVERAGE TICF: 35 MONTHS

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TASKS		PERCENT MEMBERS PERFORMING
	ADJUST FREQUENCY SHIFT CONVERTER COMPONENTS	100
	PERFORM PMI ON TELETYPE MULTIPLEXERS	100
	REPLACE FREQUENCY SHIFT CONVERTERS	100
	REPLACE FREQUENCY SHIFT KEYERS	100
	REMOVE FREQUENCY SHIFT CONVERTERS	100
N752	REMOVE FREQUENCY SHIFT KEYERS	100
	ADJUST FREQUENCY SHIFT KEYER COMPONENTS	91
	ISOLATE MALFUNCTIONS IN FREQUENCY SHIFT CONVERTERS	82
	ISOLATE MALFUNCTIONS IN FREQUENCY SHIFT KEYERS	82
	REPAIR MALFUNCTIONS IN FREQUENCY SHIFT CONVERTERS	82
	REPAIR MALFUNCTIONS IN FREQUENCY SHIFT KEYERS	82
N747	PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON	
	TELETYPE MULTIPLEXER ASSOCIATED INTERFACE EQUIPMENT	73
	PERFORM CORROSION CONTROL	73
	ADJUST LOOP CURRENT CONTROL PANEL COMPONENTS	73
1249		~ ~
	COMPONENTS, USING SOLDERING METHODS	64
1234		~ ~
	COMPONENTS, USING SOLDERING METHODS	64
	ISOLATE MALFUNCTIONS IN BALLAST PANELS	64
	PREPARE REPARABLE ITEMS FOR TURN-IN	55
	ADJUST DIRECT CURRENT (DC) POWER SUPPLY COMPONENTS	55
	REPAIR MALFUNCTIONS IN BALLAST PANELS	55
	ADJUST LEVEL CONVERTERS	55
	PERFORM PMI ON TIME DIVISION MULTIPLEXERS	45
F126	MAINTAIN BENCHSTOCKS	45

TABLE VIII

GROUP ID NUMBER AND TITLE: STG192, MOBILITY PERSONNEL

GROUP SIZE: 10		AVERAGE TIME IN JOB: 14 MONTHS
PREDOMINATE PAYGRADES:	E-5/4/6	AVERAGE TAFMS: 84 MONTHS
PERCENT OF SAMPLE: 1%		AVERAGE TICF: 30 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
R 1265	CLEAN MAINTENANCE WORK AREAS	100
R1263		100
R1322		90
R1296		
	10-TON TRACTOR-TRAILER COMBINATIONS	90
R1262	ANCHOR EQUIPMENT VANS AND SHELTERS	80
R 1266	CLEAR MOBILITY WORK AREAS	70
R1283	INSTALL CAMOUFLAGE NETTING	70
	FIRE M-16 WEAPONS	70
R1268	CONSTRUCT FACILITIES TO SUPPORT FIELD ACTIVITIES	60
G189	PERFORM TURN-ON PROCEDURES	60
R 13 19	PREPARE CAMOUFLAGE NETTING	60
J286	INSPECT WAVEGUIDES	60
G1	PERFORM TURN-OFF PROCEDURES	50
R1325		50
R1299		
	PASSENGER VEHICLES	50
	REMOVE CABLING BETWEEN SITE VANS	50
R1309	PAINT EOUIPMENT AND FACILITIES	50
R1287		40
1219		40
R14		40
060		40
J281		40
	PERFORM CORROSION CONTROL	30
L565		30
K420		30
J278	ASSEMBLE PARABOLIC ANTENNA COMPONENTS	30

TABLE IX

GROUP ID NUMBER AND TITLE: STG369, ELECTRONIC AND INSTALLATION (E&I) PERSONNEL

GROUP SIZE: 56		AVERAGE TIME IN JOB: 27 MONTHS
PREDOMINATE PAYGRADES:	E-4/3/5	AVERAGE TAFMS: 74 MONTHS
PERCENT OF SAMPLE: 3%		AVERAGE TICF: 59 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
\$1361	PERFORM INSTALLATION FUNCTIONS USING POWER TOOLS	96
S1360	PERFORM INSTALLATION FUNCTIONS USING NONPOWER TOOLS	96
S1346	INSTALL COMMUNICATION/ELECTRONIC EQUIPMENT USING	
	DRAWINGS AND SKETCHES	93
S1362	PERFORM ON-SITE E&I PROCEDURES	93
S1388	TERMINATE WIRES AND CABLES	91
S1347	INSTALL CROSS CONNECTIONS	91
	FORM AND FAN COMMUNICATION/ELECTRONIC EQUIPMENT CABLES	89
S1356	MARK DESIGNATIONS ON COMMUNICATION EQUIPMENT	86
S1348	INSTALL FIXED COMMUNICATION EQUIPMENT	84
S1389	VISUALLY INSPECT INSTALLATION AND INTERCONNECTIONS OF	
	INSTALLED EQUIPMENT	84
S1369	PERFORM E&I PREDEPLOYMENT ACTIONS	80
S1354	LACE CABLE ASSEMBLIES	80
S1385	RUN AND PREPARE COMMUNICATION/ELECTRONIC CABLES FOR	
	INSTALLATION	7 9
	INSTALL INTERMEDIATE DISTRIBUTION FRAMES (IDF)	75
S1371	POST E&I POST-DEPLOYMENT ACTIONS	73
S1355	LACE INTERNAL WIRING	70
S1352	INSTALL STATION GROUNDING SYSTEMS	64
R1275	FIRE M~16 WEAPONS	64
S1390	WIRE POWER DISTRIBUTION SYSTEMS	61
S1364	PERFORM POST-INSTALLATION OPERATION TESTS	57
S1334		57
\$1377	PREPARE SITE FOR EQUIPMENT INSTALLATION	55
\$1340	CONSTRUCT INTERCONNECTS	55

APPENDIX B

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RELATIVE PERCENT TIME SPENT ON DUTIES BY MAJOR SPECIALTY JOBS

TABLE I

RELATIVE PERCENT TIME SPENT ON DUTIES BY MAJOR SPECIALTY JOBS

				J0BS	
		BISS	BISS MAINTFNANCF	PERIMETER SEC SVSTEM	STRUCTURE
DUTIES		PERSONNEL (STG204)	SUPERVISORS (STG294)		TECHNICIANS
	PLANNING	6			10101
	:MPLEMENTING	J •	2 •	7 -	
C INSPECTING AND	EVALUATING	- ~	• •		
TRAINING		ເຄ	0	- 67	- 4
PREPARING	AND MAINTAINING FORMS, RECORDS, AND	•	2	>	5
KEPUKIS DEDECONTIC		4	œ	n	2
DEDEODMING	ACTIONS	2	٢	ო	2
DEDECOMING		o ;	2	~	•
	GENERLIE VERATION FUNCTIONS Generations	<u></u>	* (0	0
MAINTAINING		k -	ж г	13	22
MAINTAINING	RECEIVERS TO INCI UNE REFEIVE	-		*	*
PORTION OF		-	F	4	
	TRANSMITTERS TO INCLUDE TRANSMITTER	-	-	k	¥
		*	-	*	÷
	VOICE FREQUENCY MULTIPLEXERS AND		-	:	E Contraction of the second
ASSOCIATED		*	*	*	0
	IELEIYPE MULIIPLEXERS AND				
ASSUCIATED	INIERFACE EQUIPMENT	*	0	*	*
P MAINTAINING MUD	MUVEMS RASF ANN INSTALLATION SECHDITY	*	0	0	0
		56	3A	ξ0	Ŋ
Q MAINTAINING COM	MAINTAINING COMMON OR MISCELLANEOUS	5	5	n n	10
		ъ	2	Ś	ſ
R PERFORMING MOBI	PERFORMING MOBILITY AND SUPPORT FUNCTIONS	~	-		0
PERFUKMING	ELECTRONIC AND INSTALLATION (E&I)				
	CLOSED-CIRCUIT TFI FVISION (CCTV)	-	-	*	*
		ß	*	5	-
* Denotes less than	n .5 percent				

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

TABLE I (CONTINUED)

RELATIVE PERCENT TIME SPENT ON DUTIES BY MAJOR SPECIALTY JOBS

			00	JOBS
D	DUTIES	MOBILE WDBND COMM EQUIP PERSONNEL (STG124)	MOBILE TROPO RADIO TECHNS (STG218)	MOBILE MICRO RADIO TECHNS (STG2O2)
A	ORGANIZING AND PLANNING		-	
പ	DIRECTING AND IMPLEMENTING		-	- ,
<i>د</i> ا	INSPECTING AND EVALUATING		- (
54	IKAINING Ddedading and maintaining endmg defnong and	7	7	2
L	AND FAILURING LONIO, NECONDS,	~	,	~
ц.	PERFORMING SUPPLY FUNCTIONS	ı س	4	n س
G	EQUIPMENT OPERATION	13	25	12
T	PERFORMING SATELLITE OPERATION FUNCTIONS	*	*	*
н	GENERAL MAINTENANCE	12	11	12
J	ANTENNA SYSTEMS	11	16	0[
¥	MAINTAINING RECEIVERS TO INCLUDE RECEIVE PORTION OF			
	~	1	9	1
ب				
2	PORTION OF TRANSCEIVERS	6	4	9
E	ARTHIMING VOLCE FREQUENCY MULTIFLEAERS AND ASSOCIATED INTERFACE FOULTDMENT	ĿC	677	y
Z		>	•	5
	EQUIPMENT	2		2
0	MODEMS	-	*	-
Δ.	MAINTAINING BASE AND INSTALLATION SECURITY SYSTEMS	*		*
C	MAINTAINING COMMON OR MISCELLANEOUS SUBASSEMBLIES	ω	- m	80
~ 🗠	PERFORMING MOBILITY AND SUPPORT FUNCTIONS	20	19	20
S	PERFORMING ELECTRONIC AND INSTALLATION (E&I)	·	4	·
⊢	FUNCIIONS DEREARMING CINSED-CIRCHIT TELEVISION (CCTV)		ĸ	
		*	0	*
*	Denotes less than .5 percent			

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

TABLE I (CONTINUED)

RELATIVE PERCENT TIME SPENT ON DUTIES BY MAJOR SPECIALTY JOBS

			JOBS	SS	
DUTIES	FIXED WDBND COMM EQUIP PERSONNEL (STG106)	FIXED TROPO RADIO TECHNS (STG182)	FIXED MICRO Radio Techns (Grp039)	FIXED RADIO VCE FREO TECHNS (STG371)	FIXED RADIO TELETYPE MULTI TECHNS (STG244)
A ORGANIZING AND PLANNING	-	-	2	-	-
B DIRECTING AND IMPLEMENTING	~	~		*	–
	~			*	-
-	m	2	m	2	m
E PREPARING AND MAINTAINING FORMS, RECORDS,					
AND REPORTS	2	n	2	*	ຕ
₽	4		i က	,	-4
PERFORMING EQUIPMENT OPERATION	13	23	. ס ו	14	10
PERFORMING SATELLITE OPERATION	*	*	*	*	*
PERFORMING	13	6l	10	Ø	14
MAINTAINING ANTENNA SYSTEMS	2				*
	I	ı	•	•	
PORTION OF TRANSCEIVERS	14	10	17	14	G
L MAINTAINING TRANSMITTERS TO INCLUDE		•	:		•
TRANSMITTER PORTION OF TRANSCEIVERS	٥L	6	11	12	2
M MAINTAINING VOICE FREQUENCY MULTIPLEXERS					
AND ASSOCIATED INTERFACE EQUIPM	10	თ	10	18	10
•					
ASSOCIATED	പ	-	m	7	18
	-	*	p	*	2
Σ					
	~	0	2	0	
Q MAINTAINING COMMON OR MISCELLANEOUS					
SUBASSEMBLIES	18	10	61	20	24
PERFORMING	,	2	2	-	~
RONIC AND INSTAL					
	~	*	~	*	_
T PERFORMING CLOSED-CIRCUIT TELEVISION (CCTV)		·	ſ	r	
FUNCTIONS	*	¥	_	_	¥
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* Denotes less than .5 percent NOTE: Columns may not add to 100 percent due to rounding

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RELATIVE PERCENT TIME SPENT ON DUTIES BY MAJOR SPECIALTY JOBS

(STG302) SUPVRS 400* **MBLTY** 4 × 0 29 0 * GRP040) MDBND NCOIC COMMS 12 39 * 0L0 0 9 2 2 20 GRP038) JOB CON 14 132 865 * 0 * * SPVS 0 O 00 × 0 2 LND MBL RAD MGRS (STG156) JOBS 31 <u>6 13 8 23 8</u> - * 10 * 0 × 0 oc 0 0 0 QLTY CON (STG211) MGRS 8 30 6 74 о 0 10 * * 0 * ÷ O 00 O c \mathbf{c} TNG MGRS (STG240) MAINT 619 50*00-0 0 0 00 O 0 C) 0 ROMTS MGRS (STG194) PLANS/ 16 25 21 9 5 ŝ * * C 0 0 0 00 \circ 0 O MGT/PERS (STG019) SUPVRY 3 10 2208 ∗ 3 PREPARING AND MAINTAINING FORMS, RECORDS, PERFORMING MOBILITY AND SUPPORT FUNCTIONS PERFORMING EQUIPMENT OPERATION FUNCTIONS PERFORMING SATELLITE OPERATION FUNCTIONS PERFORMING GENERAL MAINTENANCE FUNCTIONS MAINTAINING VOICE FREQUENCY MULTIPLEXERS RECEIVERS TO INCLUDE RECEIVE PERFORMING ELECTRONIC AND INSTALLATION MAINTAINING TELETYPE MULTIPLEXERS AND TRANSMITTER PORTION OF TRANSCEIVERS PERFORMING CLOSED-CIRCUIT TELEVISION MAINTAINING TRANSMITTERS TO INCLUDE AND ASSOCIATED INTERFACE EQUIPMENT MAINTAINING COMMON OR MISCELLANEOUS MAINTAINING BASE AND INSTALLATION ASSOCIATED INTERFACE EQUIPMENT PERFORMING SUPPLY FUNCTIONS MAINTAINING ANTENNA SYSTEMS DIRECTING AND IMPLEMENTING INSPECTING AND EVALUATING **TRANSCE I VERS** ORGANIZING AND PLANNING SECURITY SYSTEMS (BISS) MAINTAINING MODEMS (CCTV) FUNCTIONS (E&I) FUNCTIONS SUBASSEMBLIES AND REPORTS MAINTAINING PORTION OF **FRAINING** DUTIES **A B C D M** LOIHOY Σ z 0 6 0 **2** 3 1

* Denotes less than .5 percent

NOTE:

Columns may not add to 100 percent due to rounding

TABLE I (CONTINUED)

RELATIVE PERCENT TIME SPENT ON DUTIES BY MAJOR SPECIALTY JOBS

	DUTIES	TECH TNG INSTR (STG372)**	CCTV TECHNS (STG138)**	TELETYPE MULTI SYS TECHNS (STG206)**	MOBILITY PERS (STG192)**	E&I TECHNS (STG369)**	
< 8	ORGANIZING AND PLANNING DIRECTING AND IMPIEMENTING	~ ~	ст (-	-	2	
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	<u>ب</u> م	66	9	. 61	1*	1 m	
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רט	PERFORMING EQUIPMENT OPERATION DEPENDMING SATED ITE OPERATION	°=') 4 (°0	† =	5	
	PERFORMING GENERAL MAINTENANCE FUN	5 ~		0 6	د «	oç	
<u>د</u> ر.	MAINTAINING ANTENNA SYSTEMS	*	0	io	0	<u>5</u>	
∠	MAINIAINING RECEIVERS TO INCLUDE RECEIVE PORTION OF TRANSCFIVERS	-	•	F			
-		-	4	~	2	*	
Σ	TRANSMITTER PORTION OF TRANSCEIVERS MAINTAINING VOICE FREDUENCY MULTIDE EVEDS AND	-	~		2	*	
	INTERFACE EQUIPMENT	-	F	ი	2	*	
Ζ	MAINIAINING IELETYPE MULTIPLEXERS AND ASSOCIATED INTERFACE EQUIPMENT	÷	c	00	ſ	+	
0		: *	4	5 7 7	າດ	* C	
₽.	MAINTAINING BASE AND INSTALLATION SECURITY	Ċ) ()	>	
ð	MAINTAINING COMMON OR MISCELLANEOUS	5	14	0	0	-	
C	SUBASSEMBLIES	*	9	12	7	_	
×ν	PERFURMING MUBILITY AND SUPPORT FUNCTIONS PERFORMING ELECTRONIC AND INSTALLATION	e			47	4	
┣	(E&I) FUNCTIONS PERFORMING CLOSED-CIRCUIT TELEVISION (CCTV)	0	*	-	-	69	
		0	32	0	0	-	

* Denotes less than .5 percent ** Independent Job NOTE: Columns may not add to 100 percent due to rounding