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PREFACE

This report presents the results of a detailed Air Force Occupational Survey of the following three Air Force Specialties (AFSs) in the Minuteman Missile Electronic Equipment career field: AFS 316X0G, Missile Systems Analyst, WS-133AM/CDB; AFS 316X2G, Missile Electronic Equipment Specialist, WS-133A, WS-133A/M; and AFS 316X2H, Missile Electronic Equipment Specialist, WS-133B. This project was directed by USAF Program Technical Training, Volume 1, dated January 1976. Authority for conducting occupational surveys is contained in AFR 35-2. Computer outputs from which this report was produced are available for use by operating and training officials.

The survey instrument was developed by Captain David S. Street, Inventory Development Specialist. Major William A. Tamashunas analyzed the survey data. First Lieutenant Michael J. Kelley, Major William A. Tamashunas, and Mr. James B. Keeth wrote the final report. This report has been reviewed and approved by Lt Col Jimmy L. Mitchell, Chief, Airman Career Ladders Analysis Section, Occupational Survey Branch, USAF Occupational Measurement Center, Lackland AFB, Texas, 78236.

Computer programs for analyzing the occupational data were designed by Dr. Raymond E. Christal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL.

Copies of this report are available to air staff agencies, major commands, and other interested training and management personnel upon request to the USAF Occupational Measurement Center, attention of the Chief, Occupational Survey Branch (OMY), Lackland AFB, Texas 78236.

This report has been reviewed and is approved.

JAMES A. TURNER, JR., Col, USAF Commander USAF Occupational Measurement Center

WALTER E. DRISKILL, Ph.D. Chief, Occupational Survey Branch USAF Occupational Measurement Center

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SUMMARY OF RESULTS

1. Survey Coverage. During the period 8 August 1977 through 24 January 1978, the job inventory was administered to incumbents involved with the Minuteman Missile Electronic Maintenance career ladders. Survey results are based on responses from 827 of the 1,156 incumbents assigned to Air Force Specialties (AFSs) 316X0G, 316X2G, and 316X2H. This represents 72 percent of all AFS 316X0G incumbents; 56 percent of all AFS 316X2G personnel; and 27 percent of all AFS 316X2H specialists assigned.

2.) <u>Career Ladder Structure</u>. Eighty-eight percent of the survey respondents grouped into eight functional areas. These areas were defined by specialty, weapon system, missile system, missile wing, and experience level combinations.

DAFSC and Specialty Group Analysis. Generally, 5-skill level respondents perform technical tasks, while 7-skill level personnel perform a combination of technical and supervisory tasks. Respondents in each specialty reported performing specialty-specific tasks not commonly performed by personnel in the other specialties surveyed.

4. Data Comparisons With AFR 39-1. The AFR 39-1 Specialty Descriptions for specialties 316X0 and 316X2 covered all major functions performed by Minuteman respondents in specialties 316X0G, 316X2G, and 316X2H. Weapon System designations for the "G" and the "H" suffixes relating to the 316X0 and the 316X2 specialty descriptions appear to need review.

6.) Comparison of Present With Previous Surveys. Both surveys of the 316X0G specialty identified similar career ladder structures and related data results. The present survey more specifically and comprehensively defines the jobs performed by 316X2G and 316X2H incumbents.

OCCUPATIONAL SURVEY REPORT MINUTEMAN MISSILE ELECTRONIC MAINTENANCE CAREER LADDERS (AFSCs 316X0G/316X2G/H)

INTRODUCTION

This is a report of an occupational survey of three Air Force Specialties (AFS) in the Minuteman Missile Electronic Maintenance Career Field:

AFS 316X0G-Missile Systems Analyst, WS-133AM/CDB;

AFS 316X2G-Missile Electronic Equipment Specialist, WS-133A, WS-133A/M;

AFS 316X2H-Missile Electronic Equipment Specialist, WS-133B.

Incumbents in these specialties perform electronic maintenance on two fundamental missile systems (LGM-30F and LGM-30G) and on equipment which supports four basic weapon systems (WS-133AM, WS-133AM/I, WS-133AM/CDB, and WS-133B/CDB). Previous occupational surveys were published in October 1973 for the Missile Systems Analyst career ladder (AFS 316X0G/H) and in October 1974 for the Missile Electronic Equipment Specialist career ladder (AFS 316X2F/G/H/Q/T).

Since the 1973 and 1974 surveys, the jobs, missile systems, and weapon systems in the 316X0 and 316X2 specialties have changed. The 316X0H specialty was deleted in September 1976 and the personnel and jobs performed by these incumbents have been incorporated into the 316X0G career area. Tasks related to maintaining electrical power, power production, and environmental control systems performed by 316X0G incumbents are now being transferred to 541X0G personnel. The LGM-30B missile system and the WS-133A weapon system are no longer in the operational inventory and existing weapons systems are being modified to accommodate use of the Command Data Buffer (CDB) system.

This survey was conducted to examine the career ladder in light of the changes discussed above. Four major topics will be addressed: (1) development and administration of the survey instrument; (2) the job structure found within the career ladders and how this relates to skill level; (3) comparisons of the job structure with current career ladder documents such as the AFR 39-1 Specialty Descriptions and (4) comparisons of the current findings to both the 1973 and 1974 surveys.

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INVENTORY DEVELOPMENT AND ADMINISTRATION

The data collection instrument for this occupational survey was USAF Job Inventory AFPT 90-316-261. The task lists from the previous inventories were used as the starting point for developing the new task list. These previous task lists were revised and refined through a thorough research of career field publications and directives, personal interviews with 24 subject matter specialists at three bases (Minot AFB, Malmstrom AFB, and Vandenburg AFB), and written reviews from 66 experienced missile electronic maintenance specialists throughout the Minuteman system. This process resulted in a revised job inventory of 1,375 tasks grouped under 23 duty headings.

During the period August 1977 through January 1978, consolidated base personnel offices in operational units worldwide administered the inventory booklets to airmen holding DAFSCs 316X0G, 316X2G, 316X2H, and 31693. Job incumbents were selected from a computer generated mailing list obtained from personnel data tapes maintained by the Air Force Human Resources Laboratory (AFHRL). Personnel were selected to participate in this survey so as to insure proper representation across all three specialties surveyed. Table 1 reflects the percentage distribution, by major command, of assigned personnel in the three technical specialties. Also reflected is the distribution, by major command, of airmen making up the final survey sample. The 803 incumbents making up the total sample represent 69 percent of the 1,156 members assigned to all three specialties.

Table 2 shows the distribution of the survey sample in terms of DAFSC groups. Table 3 reflects TAFMS distribution of each specialty. Generally, it appears that the survey sample provides adequate representation of MAJCOMS and DAFSCs in the 316X0G and 316X2G specialties. However, due to the low number of 316X2H personnel in the sample (N=10), data on this specialty is presented for information only and these respondents will not be directly discussed in this report.

COMMAND REPRESENTATION OF SURVEY SAMPLE

	AFS 3	16X0G	AFS 31	6X2G	APS 31	6X2H
COMMAND	PERCENT PERCENT ASSIGNED SAMPLED	PERCENT SAMPLED	PERCENT PERCENT ASSIGNED SAMPLED	PERCENT	PERCENT PERCENT ASSIGNED SAMPLED	PERCENT
SAC	66	97	97	98	95	100
ATC	1	2	e	2	5	0
OTHER	*	*	0	0	0	•
TOTAL	100	100	100	100	100	100
TOTAL 316X06 ASSIGNED - 1,046 TOTAL 316X0G SAMPLED - 752 PERCENT 316X0G SAMPLED - 72%	TOTAL 316 TOTAL 316 PERCENT 3	TOTAL 316X2C ASSIGNED - 73 TOTAL 316X2G SAMPLED - 41 PERCENT 316X2G SAMPLED - 56%	- 73 - 41 D - 56%	TOTAL 3 TOTAL 3 PERCENT	TOTAL 316X2H ASSIGNED - 37 TOTAL 316X2H ASSIGNED - 37 PERCENT 316X2H SAMPLED - 273	ED - 37 0 - 10 LED - 27%

* LESS THAN ONE PERCENT

NOTE: DAPSC 31693 PERSONNEL ARE NOT INCLUDED IN THESE STATISTICS.

DAFSC REPRESENTATIONS OF THE SPECIALTY SAMPLES

DAFSC	*PERCENT OF ASSIGNED	PERCENT OF SAMPLE
316306	10	10
31650G	61	58
316706	29	32
31632G	7	7
31652G	63	61
316726	30	32
31632H	8	10
31652H	62	70
31672H	30	20

* AS OF DEC 1977

NOTE: 9-SKILL LEVEL PERSONNEL SUPERINTEND WORK ACROSS FOUR DIFFERENT CAREER LADDERS. THEREFORE, SPECIFIC 9-SKILL LEVEL AUTHORIZATIONS ARE NOT AVAILABLE FOR EACH LADDER.

TAFMS DISTRIBUTION OF SURVEY SAMPLE

MONTHS TIME IN SERVICE	1-48	96-67	97-144	145-192	193-240	241+
NUMBER IN AFS 316X0G SAMPLE	377	171	94		36	20
PERCENT OF AFS 316X0G SAMPLE	51%	23%	12%		5%	2%
NUMBER IN AFS 316X2G SAMPLE	18	11	4	5	1	28 59
PERCENT OF AFS 316X2G SAMPLE	44%	27%	10%	12%	2%	
NUMBER IN AFS 316X2H SAMPLE PERCENT OF AFS 316X2H SAMPLE	5 50%	308 308	202			

CAREER LADDER STRUCTURE

An essential part of the USAF occupational analysis program is the examination of career ladder personnel in terms of the actual structure of the jobs they perform. This examination is made possible by the Comprehensive Occupational Data Analysis Programs (CODAP) which generate a hierarchical clustering of all jobs performed in the field based upon the similarity of tasks performed and the percent time spent performing these tasks. Background factors such as DAFSC, job title, grade, position, etc. have no bearing on the job clustering process and only are used to help describe the job groups identified.

The basic identifying group used in the hierarchical job structuring analysis is the Job Type. A job type 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 job types, they are grouped together and labeled as a <u>Cluster</u>. Finally, there are often cases of specialized job types that are too dissimilar to be grouped with any other job types into a cluster. These unique groups are labeled Independent Job Types.

Based on the similarity of tasks performed and time spent performing these tasks, the jobs actually performed in AFS 316X0G, 316X2G, and 316X2H are listed below and illustrated in Figure 1. These major job groups are briefly described below. A more detailed description of representative duties, distinguishing tasks, and common background characteristics for each of these groups is presented in Appendix A. Selected background and job satisfaction data for these groups are presented in Tables 4 and 5.

I. Electromechanical Team (EMT) Members (N=275)

II. Site Security Maintenance Team (SSMT) Members (N=69)

III. Combat Targeting Team (CTT) Members (N=96)

- IV. Technical Engineering and Analysis Technicians (TEATs) (N=16)
- V. AFS 316X2G Missile Electronic Equipment Specialists (N=30)
- VI. AFS 316X2H Missile Electronic Equipment Specialists (N=8)
- VII. Supervision and Support Personnel (N=145)

VIII. Maintenance Control Personnel (N=83)

Eighty-eight percent of all survey respondents perform jobs that are generally equivalent to those identified in Figure 1. The remaining 12 percent of the sample include members whose jobs cannot be meaningfully identified with these major groups.

Group Descriptions

1. Electromechanical Team (EMT) Members. The 275 members of this cluster represent 33 percent of the total sample and are the largest cluster identified. More than 50 percent of this group's job time is spent performing tasks related to maintaining WS-133 launch facilities (LFs) and launch control facilities (LCFs), maintaining missile facility electrical power systems, and performing general missile maintenance. The relative percent time spent on any one task by all EMT members is consistently small and tends to indicate that all the EMT's job is functionally very broad.

Within this cluster are several specialized job types whose respondents perform tasks related to LGM-30G and WS-133B/WS-133B/1; LGM-30F and WS-133AM/AM-I; and LGM-30G and WS-133AM/AM-I missile system and weapon system combinations used by the various Minuteman wings. These specialized job types are discussed in Appendix B.

The membership in this large cluster is composed entirely of 316X0G personnel, who represent 37 percent of all 316X0G respondents. Seventy-one percent of the group members have a 5-skill level DAFSC and 68 percent are in their first enlistment. Generally, EMT members reported that their job is interesting and their talents and training are being utilized fairly well or better (See Table 5).

II. Site Security Maintenance Team (SSMT) Members. The 69 respondents in this job type represent eight percent of the survey sample. Forty-seven percent of their job time is spent on tasks related to maintaining WS-133 launch and launch control facilities. Common tasks involve isolating malfunctions to wing-specific inner zone (IZ) and outer zone (OZ) security systems, performing launch facility security systems calibration procedures, and performing security system check out procedures.

As with the previous cluster, membership in this job type is composed entirely of 316XOG personnel and represents nine percent of all DAFSC 316XOG respondents. Eighty percent of the personnel are in their first enlistment. Sixty-one percent of these incumbents reported that their job is interesting and 59 percent reported that their training is not being used effectively (See Table 5 for contrast with other groups).

III. Combat Targeting Team (CTT) Members. This group of 96 316X0G respondents accounts for 12 percent of the total sample. These group members primarily perform missile targeting and collimator set alignment functions (Duty N). Their primary tasks relate to the targeting of missile guidance and control (G and C) systems and the performance of limited maintenance tasks on targeting and G and C components. These tasks include performing missile CSD code changes, performing collimator checkouts, and aligning collimators of Wing I, II, or IV systems.



Two job types, based primarily on missile systems - with corresponding weapon system modifications - were identified within this functional area (See Appendix B). Tasks related to alignment and collimator maintenance distinguish the two job types. The first job type is comprised of CTT members who maintain the LGM-30F missile system at Wings I, II, and IV and who perform collimator checks and alignments. In contrast, members of the second job type maintain the LGM-30G missile system at Wings III, V, and VI and do not perform these alignment and maintenance tasks. For example, 100 percent of the LGM-30F job type report calculating reference mirror azimuths while none of the LGM-30G job type perform this task. Based on telephone conversations with HQ ATC and HQ SAC personnel, the implementation of the Command Data Buffer (CDB) system is the major cause of these CTT differences.

Of the three 316X0G functional areas identified thus far, CTT personnel report performing the narrowest job in terms of the average number of tasks performed (73 tasks). They also reported having the lowest job interest across all AFS 316X0G job groups (only 47 percent reported their jobs as at least fairly interesting). However, 59 percent responded that their training is being used fairly well or better. Seventy-six percent of the members of this cluster are in their first enlistment.

In performing their job, more than 60 percent of these members operate Standard (Category III) and Systems (Category II) test equipment.

IV. <u>Technical Engineering and Analysis Technicians (TEATs)</u>. Approximately two percent of all respondents are represented by these 16 group members. These incumbents are 7- and 9-skill level personnel who troubleshoot and resolve system malfunctions which can not be resolved by established procedures. Tasks performed by these respondents involved all missile systems and all weapon systems - at all modification phases. These respondents are the most technically experienced personnel in AFS 316X0G - averaging 153 months in the service and reporting some use of almost all the equipment listed in the job inventory.

These members reported the highest job interest (81 percent responded that their job is interesting) and the most positive training utilization (87 percent reporting their training is being used fairly well or better). None of the members in this group have less than 97 months time in service.

V. AFS <u>316X2G</u> <u>Missile Electronic Equipment Specialists (MEES)</u>. These <u>30</u> Electronics Laboratory (E-Lab) personnel represent four percent of the total sample. All hold DAFSC <u>316X2G</u> and comprise 73 percent of all DAFSC <u>316X2G</u> respondents. More than 25 percent of their job time is spent performing functional checks, performing self tests, and isolating malfunctions on WS-133A, WS-133A-M, and WS-133AM/CDB equipment. The largest percentage of the respondents' job

time (22 percent) is spent on tasks associated with repairing and servicing missile electronic equipment (Duty V). Tasks specifically related to WS-133AM weapon systems and to Voice Reporting Signal Assemblies (VRSA) distinguish 316X2G respondents from respondents in the next independent job type (VI) who maintain WS-133B systems-related electronic equipment. Approximately 97 percent of these respondents reported being assigned to the LGM-30F missile system. Fifty percent of the members are in their first enlistment.

Generally, incumbents in this independent job type perform the broadest job (averaging 201 tasks) of all job groups identified in this survey. Job interest is somewhat high among these members, with 77 percent also indicating that their training is being used effectively (See Table 5).

V1. <u>AFS 316X2H Missile Electronic Equipment Specialists (MEES)</u>. Representing only one percent the total sample, all eight of these AFS 316X2H "E-Lab" respondents reported maintaining WS-133B weapon system equipment. Common tasks relate to performing functional checks and self tests on, isolating malfunctions in, and calibrating and adjusting WS-133B electronic equipment. Performing self tests of, functional checks of, and calibrations or adjustments on AN/GSM-131, AN/GSM-139, and AN/GSM-145 equipment were done exclusively by this group.

The job performed by these incumbents, who averaged 178 tasks, is not as broad as the job performed by AFS 316X2G MEE specialists. Computer-associated tasks (predominantly relating to UNIVAC 1218 Digital Data Computers) and tasks relating to Command Data Buffer equipment distinguished these respondents from AFS 316X2G MEE specialists.

Members of this group reported that they are assigned primarily to Wings O, 1, and VI - wings at which WS-133B systems maintenance requirements exist. Eighty-seven percent of this group responded that their training is being used fairly well or better. Five of the eight members of this group reported they are in their first enlistment.

VII. Supervision and Support Personnel (AFSs 316X0G/316X2G/ 316X2H,31693). Respondents in specialties 316X0G and 31693 dominated this cluster, which represents 18 percent of the total sample. This group and the TEAT group (IV) represent the most experienced respondents across all the specialties in this survey. These respondents provide the various management and training support required by personnel in these specialties. Representative job types within this cluster include Training Instructors, Supervisors (Staff and Field), Inspectors/ Evaluators, and Trainer Maintenance personnel. The Supervisors group includes Team Chiefs, Flight Chiefs, Section Chiefs, Field Supervisors, Branch and Division NCOICs, Superintendents, and MAJCOM-agency NCOICs. More complete descriptions of all groups are presented in Appendix B. The individuals in this cluster reported performing an average of 68 tasks - most of which are associated with Duties A through E (supervisory and administrative-related duties). Incumbents in this cluster average 147 months in the service. Seventy-one percent reported their jobs as interesting, while 68 percent responded that their training is being used fairly well or better.

VIII. <u>Maintenance</u> <u>Control Personnel</u> (AFS <u>316X0G</u>). The 83 respondents in this group accounted for ten percent of the total sample. Job groups identified in this functional area are Briefers/Debriefers, Weapon System Controllers (or Job Controllers), and Maintenance Schedulers. These respondents perform an average of only 25 tasks and perform the narrowest job of any group identified. These incumbents are primarily senior 5- and 7-skill level <u>316X0G</u> personnel with an average of 89 months in the service (only 12 percent report being in their first enlistment). These group members reported high job interest, as did the TEATs and supervisor job groups. Seventy percent of these respondents reported their jobs as fairly interesting or better.

Compared to all other reported groups, these group members perform few tasks specific to missile system or weapon system equipment maintenance. Not more than 30 percent reported being assigned to a missile or weapon system. More than 87 percent of the job time of these respondents is spent performing tasks related to organizing and planning, directing and implementing, and performing administrative functions. More complete descriptions of the job types in this cluster are given in Appendix B.

Summary

Based on analysis of tasks, the eight functional areas described above appear to be distinct. The EMT, SSMT, and CTT respondents (those with DAFSC 316X0G) perform different maintenance tasks at the launch site while the AFS 316X2G and the AFS 316X2H Missile Electronic Equipment Specialists perform bench test tasks on WS-133 weapon systems. Maintenance Control members accomplish maintenance requirements with AFS 316X0G resources, and Supervision and Support - along with TEAT - respondents provide technical expertise and support to all technically oriented functional areas.

SELECTED BACKGROUND DATA ON CAREER LADDER FUNCTIONAL AREAS

	ELECTROMECHANICAL TEAMS	SITE SECURITY MAINT. TEAMS	COMBAT TARGETING TEAMS	TECHNICAL ENGINEERING AND ANALYSIS TEAMS	AFS 316X26 MEES	AFS 316X2H MEES	SUPERVISION AND SUPPORT	MAINTENANCE CONTROL
AVERAGE NUMBER OF TACKE DEBENDARTD								
IASKS FERLURIED	187	105	73	154	201	178	68	25
AVERAGE GRADE	3.9	3.7	3.7	6.3	4.2	4.0	6.1	4.8
FERLENI DERBERS WHO								
SUPERVISE	25%	28%	557	195	371	132	562	27%
AVERAGE TIME IN								
PRESENT JOB	18.1 MOS	16.7 MOS	14.0 MOS	22.9 MOS	26.2 MOS	20.4 MOS	16.3 MOS	16.8 MOS
SEBUTCS	10 0 100							
PERCENT MEMBERS IN	CUT 0.44	SUT 0.04	41.2 705	153.0 HOS	60.4 MOS	53.1 MOS	146.6 MOS	88.9 MOS
FIRST ENLISTMENT	189	80%	76%	0	501	631	1.7	121
DAFOC 21630C								
	401	136	237		•	•	31	
DAFSC 316506	712	277	189		•		404	•5•
DAFSC 316706	162	101	16	75%	•	•	169	154
DAFSC 316326	•			•	19	•		
DAFSC 31652G	•			,	422		•	
DAFSC 316726	•			•	172	•		
DAFSC 31632H	•			,		139		
DAFSC 31652H	•	•			•	471		
DAFSC 31672H	•		•	,	•			
						-		
DAFSC 31693	,	•	11	25%			101	•
NO RESPONSE	•	•	•	•		•	14	,

DASH = LESS THAN ONE PERCENT

•

RESPONSES RELATING TO JOB SATISFACTION BY CAREER LADDER FUNCTIONAL AREA GROUPS (BY PERCENT MEMBERS RESPONDING)

1 FIND NY JOB DULL 100-50	ELECTROMECRANICAL TEAMS 17 23	SITE SECURITY MAINT. TEANS 14 22	COMBAT TARGETING TEAMS 22 29	TECKNICAL ENGINEERING AND ANALYSIS TEAMS 6 7	AFS 316X2G MEAS 17 17	AFS 316X2H MEES 13 13	SUPERVISION AND SUPPORT 12 10	MAINTENANCE CONTROL
INTERESTING NO RESPONSE TY JOB USES HY TRAINING	85 4	91 9	27	e n eo	188	12 12	210	200
VERY LITTLE OR NOT AT ALL FAIRLY WELL TO PARATY VELL TO	22	65	ŝ	8	23	99 141	8	8
NO RESPONSE IN JOB USES IN	0	n N	55 55	5 0 '	-	lo '	3 -	Ş 1
VERY LITTLE OR NOT AT ALL FAIRLY WELL TO	68	f 3	8	v	8	2	81	E
PLAKS TO REPUIST	5 N	50	6 4	a o	r, o	50 Q	g o	8 3
NO, OR PROBABLY NO TES, OR PROBABLY TES NO RESPONSE	ი შ წ ლ	8 19 °	4 5 4 7 7 4	8 E o	232	88°	# 3 °	227

ANALYSIS OF TASK AND JOB DIFFICULTY

From a listing of airmen identified to be surveyed in Air Force Specialties 316X0G, 316X2G, and 316X2H, incumbents at the 7- and 9-skill levels in each AFS and from representative locations were selected to rate task difficulty. Tasks were rated on a nine-point scale from extremely low to extremely high difficulty, with difficulty defined as the length of time it takes an average incumbent to learn to do the task. Interrater reliability (as assessed through components of variance of standardized group means) among the 74 raters whose responses were used was .91. Ratings were adjusted so that tasks of average difficulty have ratings of 5.00.

Table 6 presents a representative listing of tasks rated as having above average difficulty. In several cases, the majority of tasks in specific duties were rated as above average in difficulty. For example, all tasks related to performing trainer operation functions (Duty F) and performing trainer maintenance (Duty G) were given a higher than average difficulty rating. In addition, large numbers of tasks pertaining to maintaining missile facility electrical power systems (Duty K) and tasks relating to maintaining and checking, WS-133 systems, and electronic equipment (Duties O through U) were also rated above average. Of these, tasks related to isolating malfunctions in WS-133B electronic equipment (Duty T) and calibrating and adjusting WS-133B Electronic equipment (Duty U) were consistently rated as more difficult.

A representative listing of tasks rated below average in difficulty is provided in Table 7. Tasks related to maintaining WS-133 launch facilities and launch control facilities, LGM-30 missile systems, missile facility environmental control systems, and missile control and monitoring electronic systems, (Duties I, J, L, and M) and performing missile targeting and collimator set alignment functions (Duty N) were generally rated below average in difficulty. Tasks involving repairing and servicing missile electronic equipment (Duty V) were consistently rated below average. Other tasks having a low difficulty rating are those dealing with general shop maintenance (Duty W) and maintenance administration functions (Duty E). Likewise, most of the tasks in Duty B, Directing and Implementing, and Duty C, Inspecting and Evaluating, were rated as having low difficulty.

Job Difficulty Index (JDI)

Besides reviewing the relative difficulty of tasks, it seems useful to look at the relative difficulty of the jobs. To obtain a relative Job Difficulty Index (JDI), the task difficulty ratings for the tasks performed and the time spent on those tasks (by specified job groups) were entered into a statistically reliable formula which predicts overall job difficulty. The resultant JDIs provide a relative measure of which jobs are more or less difficult when compared to other jobs identified in

and marked and have a set for a state of the set of the

the sample. The index ranks jobs on a scale of one (for very easy jobs) to 25 (for very difficult jobs). The indices are then adjusted so that the average JDI is 13.00. Individual JDIs were computed for each specialty and for the major job groups identified in the CAREER LADDER STRUCTURE section of this report. These indices are listed in Table 8.

Overall, it was found that the jobs performed by the Missile Electronic Equipment Specialists (316X2G and 316X2H) and the Technical Engineering Analysis Technicians (316X0G) have the highest computed job difficulty. Since tasks performed by these group members were consistently rated above average in difficulty, this appears logical. The least difficult jobs identified are those dealing with maintenance control, combat targeting, and site security maintenance, all 316X0G jobs. A review of tasks performed by these group members showed that most of these tasks were rated below average in difficulty.

TASKS RATED ABOVE AVERAGE IN DIFFICULTY

INERS 7.55 NGES 7.55 NGES 7.55 NGES 7.55 REMS 7.14 FUTERS 7.09 PUTERS 6.93 CE 6.93 R SETS 6.93 R SETS 6.65 RTER 6.52 RTER 6.52 RTER 6.22 I 6.02 AINERS 5.94 AINERS 5.94 I 5.60 NCE 5.20 NCE 5.20	TASK		TASK DIFFICULTY INDEX	AFS 316XXG/H PERCENT MEMBERS PERFORMING (N=827)
ISOLATE MALFUNCTIONS OF AN/GSQ-T9 (AM PORTIÓN) LF TRAINERS 7.69 DEVELOP WEAPONS SYSTEMS ENGINEERING OR PROCEDURAL CHANGES 7.55 DEOLATE MALFUNCTIONS OF AN/GSQ-T26 OR AN/GSQ-t27 CMPT 7.55 ISOLATE MALFUNCTIONS IN R-1358/B/GSW-10 UHF RADIO 7.26 SUBSYSTEMS 7.14 SUBSYSTEMS 7.10 CALIBRATE OR ADJUGT R-1358/B/GSW-10 UHF RADIO 7.20 SUBSYSTEMS 7.14 ISOLATE MALFUNCTIONS IN AN/GSM-235 ELECTRONIC SYSTEMS 7.14 ISOLATE MALFUNCTIONS IN AN/GSM-235 ELECTRONIC SYSTEMS 7.09 ISOLATE MALFUNCTIONS IN UNITS OF AN/GSM-139 MAINTENANCE 6.79 GROUND EQUIPMENT TEST SETS 6.79 GROUND EQUIPMENT TEST SETS 6.79 GROUND EQUIPMENT TEST SETS 6.79 SIGMATE MALFUNCTIONS IN AN/GSQ-96 CODE CHANCE VERIFIER SETS 6.79 GROUND EQUIPMENT TEST SETS 6.70 GROUND EQUIPMENT TEST SETS 6.60 UNITS 6.00 6.79 SIGMATE MALFUNCTIONS IN AN/GSQ-96 CODE CHANCE VERIFIER SETS 6.65 OLALIBRATE OR ADJUTY TEST SETS 6.65 UNITS 600000 EQUIPMENT TEST SETS 6.62 ISOLATE MALFUNCTIONAL CHECKS OF GLIDE MALE VERIFIER SETS<	613		8.06	2
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REMOVE OR INSTALL ECS ON LF OF WING 6U OR 1-X SYSTEMS		COUPLER UNITS	5.42	4
	L63	REMOVE OR INSTALL ECS ON LF OF WING 6U OR 1-X SYSTEMS	5.20	2

* INDICATES LESS THAN ONE PERCENT

TASKS RATED BELOW AVERAGE IN DIFFICULTY

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3.39	
	22
PERFORM OPERATIONAL CHECKS OF PORTABLE HOISTING EQUIPMENT 3.08	44
FRANSPORT TECHNICAL EQUIPMENT TO USING OR SERVICING	
2.89	12
INSTALL SAFETY DEVICES SUCH AS SAFETY BARRIERS,	
2.55	60
2.21	24
REMOVE OR INSTALL ELECTRICAL PLUG OR SNAP-IN COMPONENTS	
2.05	63
RAISE OR LOWER MISSILE MAINTENANCE EQUIPMENT INTO OR	
1.91	35
1.75	6
RIERS, NTS	

JOB DIFFICULTY INDICES FOR SPECIALTY AND CAREER LADDER GROUPS

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INDEX		MG (N=275) 16.
	JOB GROUPS	ELECTBOMECHANICAL TEAMS (N=275)
GROUPS	CAREER LADDER JOB GROUPS	

I ELECTROMECHANICAL TEAMS (N=275) II SITE SECURITY MAINTENANCE TEAMS (N=69) III COMBAT TARGETING TEAMS (N=96) IV TECHNICAL ENGINEERING ANALYSIS TECHNICIANS (N=16) V AFS 316X2G MEES (N=30) VI AFS 316X2H MEES (N=80) VII SUPERVISION AND SUPPORT (N=145) VIII MAINTENANCE CONTROL (N=83) PECIALTY (AFS) GROUPS AFS 316X0G (N=752)	16.8					19.2	12.1	7.6		12.7
	ELECTROMECHANICAL TEAMS (N=275)	SITE SECURITY MAINTENANCE TEAMS (N=69	COMBAT TARGETING TEAMS (N=96)	TECHNICAL ENGINEERING ANALYSIS TECHNI	AFS 316X2G MEES (N=30)	AFS 316X2H MEES (N=8)	SUPERVISION AND SUPPORT (N=145)	MAINTENANCE CONTROL (N=83)	TTV (AFS) GROUPS	AFS 316X0G (N=752)

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316X0G (N=752)			AFS 31693 (N=24)	

ANALYSIS OF DAFSC GROUPS

As an integral part of each occupational analysis, task and background data of DAFSC groups are examined. This section's purpose is to highlight skill level characteristics and differences while providing a basis for comparisons of skill level groups across specialties.

Table 9 presents the relative percent time spent on the various duties by 5- and 7-skill level groups within the 316X0G and 316X2G ladders. Within each specialty, 5-skill level members spend over 70 percent of their total job time on technical functions, while 7-skill level respondents spend approximately the same amount of time (69 percent) on supervisory, training, and administrative functions.

Missile Systems Analysts (DAFSC 316X0G)

DAFSC 31650G personnel comprise the largest group in the overall sample (435 respondents). These members spend 73 percent of their time performing technical tasks pertaining to general missile maintenance, maintaining WS-133 launch and launch control facilities, and maintaining missile facility electrical power systems. Representative tasks are listed in Table 10. Tasks related to performing general shop maintenance, using launch facility-related equipment, and operating maintenance vehicles characterized the tasks performed by this group.

As discussed in the CAREER LADDER STRUCTURE section, and illustrated in Table 12, most of the 31650G respondents (48 percent) were found in the Electromechanical Team (EMT) Members cluster. Smaller percentages were also found as Security Site Maintenance Team (SSMT) Members, Combat Targeting Team (CTT) Members, and Maintenance Control personnel.

In contrast, most of the 240 DAFSC 31670G respondents are grouped into the Supervision and Support Personnel (41 percent), Electromechanical Team Member (18 percent), and Maintenance Control (15 percent) groups (See Table 12). An additional five percent of 7-skill level members were found in the Technical Engineering and Analysis Technicians (TEATs) group, a technically oriented job. Generally, DAFSC 31670G respondents spend 69 percent of their time performing supervisory, training, and administrative tasks, such as those listed in Table 11.

Missile Electronic Equipment Specialists (DAFSC 316X2G)

DAFSC 31652G respondents (N=25) spend 82 percent of their job time performing technical tasks related to repairing and servicing missile electronic equipment, performing functional checks and self tests of WS-133AM systems-related electronic equipment, and isolating malfunctions in WS-133AM systems-related electronic equipment. Table 13 lists representative 5-skill level tasks. In contrast, the tasks performed by DAFSC 31672G personnel (See Table 14) are associated with supervision, training, and administrative tasks such as drafting correspondence, reviewing and recommending changes to technical orders, and supervising or training subordinates.

Once again, Table 12 supports this distinction by showing that over 90 percent of the DAFSC 31652G respondents are grouped in the technically oriented job of the 316X2G Missile Electronics Equipment Specialist (MEES) group, while most of the 7-skill level respondents are members of the Supervision and Support Personnel group.

Missile Electronic Maintenance Superintendents (DAFSC 31693)

The 24 DAFSC 31693 respondents primarily perform a supervisory and managerial job, spending 82 percent of their job time on supervisory related duties. Table 15 gives representative tasks performed by 9-skill level respondents, along with corresponding percentages of 7-skill level members performing the same tasks. Although 7- and 9-skill level respondents perform many of the same supervisory tasks, DAFSC 31693 personnel spend more time on these tasks.

As shown in Table 12, most DAFSC 31693 respondents are members of the Supervisory and Support personnel group. However, some are either members of the Combat Targeting Team (CTT) Members group or of the Technical Engineering and Analysis Technicians (TEATs) group.

Similarities and Differences Between 316X0G and 316X2G Specialties

During the analysis of the DAFSC groups, it was noted that certain duties and tasks are primarily performed by members of only one specialty. As reflected in Table 16, duties I through N are performed by 316X0G personnel, duties O through Q by 316X2G personnel, duties S through U by 316X2H members, and duties R and V by both 316X2G and H personnel. Tables I through III in Appendix C offer representative tasks for each specialty. This data, along with the data displayed in Table 12, clearly show the distinct differences between the specialties surveyed. Overlap in terms of tasks performed is at a minimum and implies distinct career specialties.

Task similarities were also identified across the 316X0G, and 316X2G and 316X2H specialties. Table 17 lists representative tasks performed by members in all three specialties. Tasks commonly performed by respondents in all three specialties are administrative, general missile maintenance, and general shop maintenance tasks.

Summary

Based on tasks performed and time spent performing these tasks, there are clear differences between 5- and 7-skill level DAFSC respondents in each specialty surveyed. Superintendents in these specialties are primarily supervisors and managers but some 9-level personnel are involved in technical-oriented work (Combat Targeting Teams or Technical Engineering and Analysis Technicians). Also, the data reflect distinct differences in terms of tasks performed by each specialty, indicating the need for three distinct Air Force Specialties.

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		316X0G	316X0G DAFSCs	316X2G	316X2G DAFSCs	316X2H	316X2H DAFSCs	
		316500	316700	316526	316726	31652H	31672H	
DG	DUTY	(N=435)	(N=240)	(N=25)	(N=13)	$(N=1)^{4+p}$	(N=2) 4%	
110								
ne	SUFERVISORI/IRAINING/AURINISIRAIIVE							
*	ORGANIZING AND PLANNING	9	18	2	16	9	18	
-	DIRECTING AND IMPLEMENTING	7	20	67	15	e	80	
0	INSPECTING AND EVALUATING	e	11	2	18	10	22	
0	TRAINING	4	7	2	9	2	67	
142	PERFORMING MAINTENANCE ADMINISTRATION FUNCTIONS	7	13	6	17	9	10	
TE	TECHNICAL							
-	PERFORMING TRAINER OPERATION FUNCTIONS	*	*	0	0	0	0	
0	PERFORMING TRAINER MAINTENANCE	1	*	0	0	0	0	
H	PERFORMING GENERAL MISSILE MAINTENANCE	16	7	œ	4	5	5	
-	MAINTANING WS-133 LAUNCH FACILITIES (LF) AND LAUNCH CONTROL							
	FACILITIES (LCF)	17	9	2	**	0	4	
-	MAINTAINING LGM-30 MISSILE SYSTEMS	5	2	2	0	*	Å	
×	MAINTAINING MISSILE FACILITY ELECTRICAL POWER SYSTEMS	11	4	-,*	0	*	÷.	
-1	MAINTAINING MISSILE FACILITY ENVIRONMENTAL CONTROL SYSTEMS (ECS)	e	1	*	-j¢	*	0	
r	MAINTAINING MISSILE CONTROL AND MONITORING ELECTRONIC SYSTEMS	9	9	4	1	4	2	
N	PERFORMING MISSILE TARGETING AND COLLIMATOR SET ALIGNMENT FUNCTIONS	2	*	*	*	4	*	
0	PERFORMING FUNCTIONAL CHECKS AND SELF-TESTS OF WS-133A.							
	WS-133A/M, AND WS-133A/M COMMAND DATA BUFFER (CDB) EQUIPMENT	1	Ac.	13	9	7	2	
а.	ISOLATING MALFUNCTIONS IN WS-133A, WS-133A/M, AND WS-133A/M							
		*	44	11	4	e	2	
0	CALIBRATING AND ADJUSTING WS-133A, WS-133A/M, AND WS-133A/M							
	CDB ELECTRONIC EQUIPMENT	*	-je	∞	e	2	0	
æ	MAINTAINING TEST EQUIPMENT COMMON TO WS-133 SYSTEMS	*	*	4	1	3		
S	PERFORMING FUNCTIONAL CHECKS AND SELF-TESTS OF WS-133B							
	ELECTRONIC EQUIPMENT	*	*	1	*	13	5	
-	ISOLATING MALFUNCTIONS IN WS-133B ELECTRONIC EQUIPMENT	*	*	*	4	10	5	
D		*	*	×r	*	2	e7	
>	REPAIRING AND SERVICING MISSILE ELECTRONIC EQUIPMENT	4	2	22	ę	18	-00	
3	PERFORMING GENERAL SHOP MAINTENANCE	5	4	9	e	80	3	

* INDICATES LESS THAN ONE PERCENT. ** DUE TO THE LOW NUMBER OF RESPONDENTS, DATA IS PRESENTED FOR INFORMATION ONLY.

REPRESENTATIVE TASKS PERFORMED BY DAFSC 31650G RESPONDENTS (BY PERCENT MEMBERS PERFORMING, N=435)

	(DI FRACENT INCOMP FRACENDING) 1-400)	
TASKS		PERCENT
H6 INS	INSPECT OR INSTALL SAFETY DEVICES SUCH AS SAFETY BARRIERS, LANYARDS, OR PERSONNEL BELTS	75
H25 REM H10 OPF	REMOVE OR INSTALL ELECTRICAL PLUG OR SNAP-IN COMPONENTS SUCH AS BULBS OR FUSES OPERATE MAINTENANCE VEHICLES	75 73
	PERFORM PREVENTIVE MAINTENANCE ON HAND TOOLS OR SPECIAL TOOLS INSPECT LF TELESCOPING LADDERS	12
H14 PER	PERFORM DISPATCH VEHICLE OR EQUIPMENT TURN-IN PROCEDURES	70
	FERFORM OFFICIENT INSFECTIONS OF MAINIENANCE VEHICLES VISUALLY INSPECT AEROSPACE GROUND EQUIPMENT (AGE)	69
	REMOVE SNOW, ICE, OR DIRT FROM WORK SITES CLEAN MISSILE FACILITIES OR EQUIPMENT	66 66
	TABLE 11	
	REPRESENTATIVE TASKS PERFORMED BY DAFSC 31670G RESPONDENTS (BY PERCENT MEMBERS PERFORMING, N=240)	
TASKS		PERCENT
A40 PRE	PREPAKE FOR INSPECTIONS	69

TASKS	S	PERFORMING
A40	PREPAKE FOR INSPECTIONS	69
A8		60
E16	LOCATE INFORMATION IN TECHNICAL OR SUPPLY PUBLICATIONS	54
A6		53
W20		53
B33	PREPARE OR INDORSE AIRMAN PERFORMANCE REPORTS (APR)	50
B12		67
Al		48
B27	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES	48
B6		48

DISTRIBUTION OF DAFSC RESPONDENTS BY JOB GROUPS (PERCENT MEMBERS RESPONDING)

anna George	DAFSC 316506 (N=435)	DAFSC 31670G (N=240)	DAFSC 316526 (N=251)	DAFSC 316726 (N=131)	DAFSC 31652H (N=7)	DAFSC 31672H (N=21	DAFSC 31693
ELECTROMECHANICAL TEAM (FWT) MEMARRS	87	18	0	(mail)	11-0	(7-0)	0
	;		,	,	,	,	
SITE SECURITY MAINTENANCE TEAM (SSMT) MEMBERS	12	e	0	0	0	0	0
COMBAT TARGETING TEAM (CTT) NEMBERS	15	en	0	0	0	0	33
TECHNICAL ENGINEERING AND ANALYSIS TECHNICIANS (TEATs)	0	5	0	0	0	0	16
AFS 316X26, MISSILE ELECTRONIC EQUIPMENT SPECIALISTS (MEES)	0	0	92	38	0	0	0
AFS 316X2H, MISSILE ELECTRONIC EQUIPMENT SPECIALISTS (MEES)	0	0	0	0	86	50	0
SUPERVISION AND SUPPORT PERSONNEL	4	15	4	62	0	50	15
MAINTENANCE CONTROL PERSONNEL	11	15	0	0	0	0	0
NOT GROUPED*	10	15		0	14	0	0

* THESE RESPONDENTS DID NOT GROUP INTO ANY OF THE MAJOR JOB GROUPS IDENTIFIED

REPRESENTATIVE TASKS PERFORMED BY DAFSC 31652G RESPONDENTS (BY PERCENT MEMBERS PERFORMING, N=25)

		DERCENT
TASKS	S	PERFORMING
W1 V87 V41 W20 W20 046 046 046 046 046 046 046 046 046 04	CLEAN ELECTRONIC EQUIPMENT REMOVE OR INSTALL TAPES REMOVE OR INSTALL LAPES REMOVE OR INSTALL CIRCUIT CARDS SWEEP, MOP, OR BUFF FLOORS SWEEP, MOP, OR BUFF FLOORS PERFORM FUNCTIONAL CHECKS OF PP-3030/B/GSW-4, PP-3026/B/GSW-4, OR PP-3027/GSW-4 POWER SUPPLIES OR PP-3027/GSW-4 POWER SUPPLIES PERFORM FUNCTIONAL CHECKS OF VOICE REPORTING SIGNAL ASSEMBLIES ISOLATE MALFUNCTIONS IN VRSA CALLBRATE OR ADJUST UNITS OF AN/GSM-82 ELECTRONIC FACILITY BASE MAINTENANCE ISOLATE MALFUNCTIONS IN VRSA CALLBRATE OR ADJUST UNITS OF AN/GSM-82 ELECTRONIC FACILITY BASE MAINTENANCE TEST EQUIPMENT LOCATE INFORMATION IN TECHNICAL OR SUPPLY PUBLICATIONS REMOVE OR INSTALL P-PLUGS ON MISSILE GUIDANCE SETS	902 788 888 7004 4888 88 7004 4888
	TABLE 14	
	REPRESENTATIVE TASKS PERFORMED BY DAFSC 31672G RESPONDENTS (BY PERCENT MEMBERS PERFORMING, N=13)	
TASKS	S	PERCENT
B12 A40 E40 E40 C35 C35 C35 B40 B14 B48 B48	DRAFT CORRESPONDENCE INSPECT WORK AREAS OR EQUIPMENT PREPARE FOR INSPECTIONS REVIEW TECHNICAL ORDERS (TO) REVIEW CORRESPONDENCE OR REPORTS EVALUATE COMPLIANCE WITH MAINTENANCE POLICIES OR PROCEDURES EVALUATE COMPLIANCE WITH MAINTENANCE POLICIES OR PROCEDURES COMPILE INFORMATION FOR REPORTS OR STAFF STUDIES DEVELOP OR IMPROVE WORK METHODS OR PROCEDURES DEVELOP OR IMPROVE WORK METHODS OR PROCEDURES DRAFT RECOMMENDATIONS FOR CHANGES TO TECHNICAL PUBLICATIONS VALIDATE NEW MAINTENANCE PROCEDURES OR EQUIPMENT	0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

REPRESENTATIVE TASKS PERFORMED BY DAFSC 31693 RESPONDENTS WITH COMPARATIVE 7-SKILL LEVEL DATA (BY PERCENT MEMBERS PERFORMING, N=24)

CUCUT		31693	316706	316726	31672H*
B12	DRAFT CORRESPONDENCE	88	67	100	50
A40	PREPARE FOR INSPECTIONS	800	69	92	100
A6	CONDUCT OR PARTICIPATE IN STAFF MEETINGS	61	52	17	100
A44	SCHEDULE LEAVES	79	30	69	50
A41	REVIEW PERSONNEL REQUIREMENTS	79	29	62	0
B5	COUNSEL SUBORDINATES ON JOB PROGRESSION OR CAREER DEVELOPMENT	75	45	62	50
A16	ESTABLISH UNIT OR SECTION TRAINING REQUIREMENTS	11	27	17	50
A8	DEVELOP OR IMPROVE WORK METHODS OR PROCEDURES	71	60	85	100
B25	INITIATE CORRECTIVE ACTIONS BASED ON INSPECTION REPORTS	71	45	62	50
A2	ASSIGN PERSONNEL TO DUTY POSITIONS	11	26	54	0

PERCENT TIME SPENT IN DUTIES BY SPECIALTY AND SUPERINTENDENT GROUPS

31				SPECIALTIES	TIES	
	Ind		316X0G	316X2G (N=41)	316X2H (N=10)**	31693 (N=24)
	31	1.1.	1701-11	1111	(01-11)	1
	SU	SUPERVISORY/TRAINING/ADMINISTRATIVE				
	¥	ORGANIZING AND PLANNING	6	9	9	28
	8	DIRECTING AND IMPLEMENTING	10	œ	4	23
	U	INSPECTING AND EVALUATING	5	7	11	15
	Q	TRAINING	2	4	2	5
	ŝ	PERFORMING MAINTENANCE ADMINISTRATION FUNCTIONS	80	11	7	11
	TE	TECHNICAL				
	544	PERFORMING TRAINER OPERATION FUNCTIONS	*	*	0	*
	0		*	*	0	0
	H	GENERAL	13	9	9	3
		LAUNCH F				
		FACILITIES (LCF)	13	2	*	2
	5	MAINTAINING LGM-30 MISSILE SYSTEMS	4	1	*	44
	X	MAINTAINING MISSILE FACILITY ELECTRICAL POWER SYSTEMS	6	*	*	3
	7	MAINTAINING MISSILE FACILITY ENVIRONMENTAL CONTROL SYSTEMS (ECS)	3	*	*	-je
	r	MAINTAINING MISSILE CONTROL AND MONITORING ELECTRONIC SYSTEMS	5	ß	e	2
	N	PERFORMING MISSILE TARGETING AND COLLIMATOR SET ALIGNMENT FUNCTIONS	2	*	*	-}<
	0	PERFORMING FUNCTIONAL CHECKS AND SELF-TESTS OF WS-133A,				
		0	-k	11	e	*
	а,	ISOLATING MALFUNCTIONS IN WS-133A, WS-133A/M, AND WS-133A/M	Ŧ	¢	c	
	4	CIVITADIN CI	×	x	n	1
	>	CALIDNALING AND ADJUSTING WOTIJJA, WOTIJJA/H, AND WOTIJJA/H CDR ELECTRONIC KONTPMENT	*	9	1	0
	2	MAINTAINING TEST EQUIPMENT COMMON TO WS-133 SYSTEMS	*	3	2	-;«
	S	KS AND SELF-TESTS				
		ELECTRONIC EQUIPMENT	*	*	12	0
	H	ISOLATING MALFUNCTIONS IN WS-133B ELECTRONIC EQUIPMENT	44	*	6	*
	n	CALIBRATING AND ADJUSTING WS-133B ELECTRONIC EQUIPMENT	*	*	9	0
	Δ	REPAIRING AND SERVICING MISSILE ELECTRONIC EQUIPMENT	4	16	16	-}<
	3	PERFORMING GENRAL SHOP MAINTENANCE	5	5	7	2
	*	INDICATES LESS THAN ONE PERCENT.				

* INDICATES LESS THAN ONE PERCENT. ** DUE TO THE LOW NUMBER OF 316X2H RESPONDENTS, 316X2H DATA IS PRESENTED FOR INFORMATION ONLY.

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REPRESENTATIVE TASKS PERFORMED BY AFS 316X0G, AFS 316X2G, AND AFS 316X2H* RESPONDENTS (PERCENT MEMBERS PERFORMING)

TASKS	S	316X0G	316X2G	316X2H*
E16	LOCATE INFORMATION IN TECHNICAL OR SUPPLY PUBLICATONS	39	83	50
E42	TAG SERVICEABLE OR UNSERVICEABLE EQUIPMENT	31	73	50
H4	IDENTIFY OR REPORT CORROSION	63	32	50
H7	INSTALL SOLDERLESS CONNECTIONS	43	54	60
HII	OPERATE STANDARD (CATEGORY 111) TEST EQUIPMENT	48	61	50
H12	OPERATE SYSTEMS (CATEGORY II) TEST EQUIPMENT	39	54	50
H25	REMOVE OR INSTALL ELECTRICAL PLUG OR SNAP-IN COMPONENTS SUCH			
	AS BULBS OR FUSES	64	73	70
H29	VISUALLY INSPECT AEROSPACE GROUND EQUIPMENT (AGE)	59	54	30
414	PAINT WALLS, FLOORS, OR CEILINGS	54	76	80
91M		57	39	40
*	AFS 316X2H DATA PRESENTED FOR INFORMATION ONLY.			

COMPARISONS OF SURVEY DATA WITH CAREER LADDER DOCUMENTS

AFR 39-1 Specialty Descriptions

In conjunction with the review of skill level and specialty groups, the AFR 39-1 Specialty Descriptions were also reviewed. The survey data specifically addressed Minuteman system specialties (Suffixes G and H) while the AFR 39-1 Specialty Descriptions were broadly written to cover "across system" responsibilities. Generally, the specialty descriptions in AFR 39-1 cover all major functions performed by AFS 316X0G, 316X2G, 316X2H and 31693 incumbents. However, there is one area in both the 316X0 and the 316X2 descriptions that appears to require some updating in relation to suffix designation and assigned weapon system. The 316X0 and 316X2 definitions of the "G" suffix should probably include the WS-133AM/1 weapon system. The definition for the "H" suffix in the 316X2 specialty description appears to be somewhat outdated.

Specialty Training Standard (STS)

The STSs for the 316X0G and 316X2G/H specialties were also examined in light of the survey data. Since a thorough analysis of each STS is quite detailed and is primarily used for review of training, the STS analysis will be included in the Training Addendum to this report.

COMPARISON OF CURRENT SURVEY TO PREVIOUS SURVEYS

The results of this survey were compared to those of Occupational Survey Report (OSR) AFPT 90-316-063, October 1973, Missile Systems Analyst Career Ladder, AFSs 316X0G/H and to Occupational Survey Report (OSR) AFPT 90-316-102, August 1974, Missile Electronic Equipment Specialist Career Ladder, AFSs 316X2F/G/H/Q/T. By reviewing the career ladder structure identified in these reports, we are able to see if and how the career ladder structure has changed over time.

Missile Systems Analyst Career Ladder, AFSs 316X0G/H, 31690 (OSR, AFPT 90-316-063, dated 1 October 1973).

Both surveys reflect similar career ladder structures and include many of the same functionally oriented job groups. The only noteworthy difference concern the identification in this study of Site Security Maintenance Teams not identified previously. A comparison of 316X0G related job groups from this study and the previous study is provided below:

Present Study

Electromechanical Team (EMT) Members Site Security Maintenance Team (SSMT) Members

Combat Targeting Team (CTT) Members Technical Engineering and Analysis Technicians (TEATs)

Supervision and Support Personnel

- Training Instructors
- Supervisors (Field and Staff)
- Inspectors/Evaluators
- Trainer Maintainers

Maintenance Control Personnel

- Briefers/Debriefers
- Weapon System Controllers

- Maintenance Scheduling

Previous (1973) Study

Electromechanical Teams

Combat Targeting Team Technical Engineering Analysis Teams

Resident Course Instructors I and II Supervisors and Superintendents

Missile Trainer Maintenance Technician

Briefers and Debriefers Job Control and Scheduling Technicians Maintenance Plans Missile Refurbishment Technician

Overall it appears that the functional structure of the 316X0G career ladder has changed little since the 1973 report. There has, however, been the introduction of one new job, that of site security maintenance.

Missile Electronic Equipment Specialist Career Ladder, AFSs 316X2F/ G/H/Q/T, 31790 (OSR, AFPT 90-316-102, dated 1 August 1974).

The reporting methodology used in the previous survey precluded extensive survey-to-survey comparisons. The current survey more clearly defines the 316X2G and 316X2H specialties. Some general comparisons, however, were made. In both surveys, each specialty is weapon system specific. For example, AFS 316X2G respondents maintain WS-133AM systems-related equipment while AFS 316X2H respondents maintain WS-133B systems-related equipment. The AFS 316X2G incumbents continue to perform a relatively broader job (more tasks) while AFS 316X2H group members continue to perform a relatively more difficult job (i.e., more difficult tasks).
DISCUSSION

Based on task and background data analyses, both the CAREER LADDER STRUCTURE and the ANALYSIS OF DAFSC GROUPS sections of this report tend to support the existing classification structure of the 316X0G, 316X2G, and 316X2H specialties. Survey respondents in each of these specialties reported performing specialty-specific tasks which are not being performed to any great extent by members in the other specialties.

One minor problem was identified during analysis as a result of comparing occupational survey data with information received from HQ ATC/TT and HQ SAC/LGBA. Although 12 percent of all 316X0G and 316X2G respondents reported that they worked on the WS-133A weapon system, telephone coordinations indicated that this weapon system is no longer in the operational inventory. Additionally, weapon systems presently in the inventory were specified as: WS-133AM (basic), WS-133AM/1, WS-133AM/CDB, and WS-133B/CDB. These data inconsistencies suggest the need for a review of the weapon system designations for the "G" and "H" suffixes on the Airman Classification Structure Chart and the AFR 39-1 Specialty Descriptions.

Finally, since Minuteman production ceased in December 1977 and since existing weapon and missile systems are forecast to remain "in place" while forecast modifications will refine existing systems, the functional areas identified in this report are expected to remain relatively stable. APPENDIX A

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NUMBER IN GROUP: 275PERCENT OF SAMPLE: 33%MAJCOM DISTRIBUTION: SAC (99%), ATC (1%)DAFSC DISTRIBUTION: 31630G (13%), 31650G (71%), 31670G (16%)AVERAGE GRADE: 3.9JOB DIFFICULTY INDEX: 16.8AVERAGE TIME IN CAREER FIELD: 38.6 MOS.AVERAGE TIME IN SERVICE: 49.0 MOS.PERCENT MEMBERS IN FIRST ENLISTMENT: 68%AMOUNT OF SUPERVISION: 25% SUPERVISE AN AVERAGE OF TWO SUBORDINATES

GROUP ID NUMBER AND TITLE: GRP059 ELECTROMECHANICAL TEAM (EMT) MEMBERS

AVERAGE NUMBER OF TASKS PERFORMED: 187

GROUP DIFFERENTIATING TASKS:

TASKS

H8 ISOLATE MALFUNCTIONS USING FAULT DATA WORK READOUTS
I19 INSPECT WASTE DISPOSAL SYSTEMS IN WING 1, 2, 3, 4, OR 5
I113 REMOVE OR INSTALL WASTE DISPOSAL SUMP PUMPS
K3 ISOLATE MALFUNCTIONS IN LCF STORAGE BATTERIES
K64 PERFORM CELL-TO-CELL BATTERY VOLTAGE CHECKS

D	UTY	AVERAGE TIME SPENT BY ALL MEMBERS
K	MAINTAINING MISSILE FACILITY ELECTRICAL POWER SYSTEMS	22
H	PERFORMING GENERAL MISSILE MAINTENANCE	16
I	MAINTAINING WS-133 LAUNCH FACILITIES (LF) AND LAUNCH	
	CONTROL FACILITIES (LCF)	13
Μ	MAINTAINING MISSILE CONTROL AND MONITORING ELECTRONIC	
	SYSTEMS	11
J	MAINTAINING LGM-30 MISSILE SYSTEMS	7

GROUP 1D NUMBER AND TITLE: GRP148 SITE SECURITY MAINTENANCE TEAM (SSMT) MEMBERS

NUMBER IN GROUP: 69

PERCENT OF SAMPLE: 8%

MAJCOM DISTRIBUTION: SAC (100%)

DAFSC DISTRIBUTION: 31630G (13%), 31650G (77%), 31670G(10%)

AVERAGE GRADE: 3.7

JOB DIFFICULTY INDEX: 11.2

AVERAGE TIME IN CAREER FIELD: 30.1 MOS.

AVERAGE TIME IN SERVICE: 40.6 MOS.

PERCENT MEMBERS IN FIRST ENLISTMENT: 80%

AMOUNT OF SUPERVISION: 28% SUPERVISE AN AVERAGE OF THREE SUBORDINATES

AVERAGE NUMBER OF TASKS PERFORMED: 105

GROUP DIFFERENTIATING TASKS:

TASKS

163 PERFORM LF SECONDARY DOOR LOCK COMBINATION CHANGES
166 PERFORM LF SECURITY SYSTEM CALIBRATION PROCEDURES
131 ISOLATE MALFUNCTIONS IN WING 2, 3, 4, or 5 TYPE OZ SECURITY SYSTEMS
125 ISOLATE MALFUNCTIONS IN SECONDARY DOORS
124 ISOLATE MALFUNCTIONS IN ELECTROMECHANICAL LINEAR ACTUATORS

TIME SPENT ON DUTIES:

DUTY

AVERAGE TIME SPENT BY ALL MEMBERS

I	MAINTAINING WS-133 LAUNCH FACILITIES (LF) AND LAUNCH	
	CONTROL FACILITIES (LCF)	47
H	PERFORMING GENERAL MISSILE MAINTENANCE	19
V	REPAIRING AND SERVICING MISSILE ELECTRONIC EQUIPMENT	8
W	PERFORMING GENERAL SHOP MAINTENANCE	7

GROUP ID NUMBER AND TITLE: GRP064, COMBAT TARGETING TEAM (CTT) MEMBERS NUMBER IN GROUP: 96 PERCENT OF SAMPLE: 12% MAJCOM DISTRIBUTION: SAC (100%) DAFSC DISTRIBUTION: 31630G (23%), 31650 (68%), 31670 (8%), 31693 (1%) AVERAGE GRADE: 3.7 JOB DIFFICULTY INDEX: 9.5 AVERAGE TIME IN CAREER FIELD: 35.9 MOS. AVERAGE TIME IN SERVICE: 41.2 MOS. PERCENT MEMBERS IN FIRST ENLISTMENT: 76% AMOUNT OF SUPERVISION: 4% SUPERVISE AN AVERAGE OF THREE SUBORDINATES AVERAGE NUMBER OF TASKS PERFORMED: 73 GROUP DIFFERENTIATING TASKS: TASKS N16 PERFORM MISSILE CSD CODE CHANGES N10 PERFORM COLLIMATOR CHECKOUTS N3 CALCULATE REFERENCE MIRROR AZIMUTHS N1 ALIGN COLLIMATORS OF WING 1, 2, OR 4 SYSTEMS N5 DOWNGRADE COMPUTER MEMORY INFORMATION OF WING 1, 2, OR 4 SYSTEMS TIME SPENT ON DUTIES: AVERAGE TIME SPENT DUTY BY ALL MEMBERS H PERFORMING GENERAL MISSILE MAINTENANCE 22

FERFORMING GENERAL MISSILE MAINTENANCE	23
MAINTAINING WS-133 LAUNCH FACILITIES (LF) AND LAUNCH	
CONTROL FACILITIES (LCF)	18
PERFORMING MISSILE TARGETING AND COLLIMATOR SET	
ALIGNMENT FUNCTIONS	16
PERFORMING GENERAL SHOP MAINTENANCE	7
MAINTAINING LGM-30 MISSILE SYSTEMS	7
	MAINTAINING WS-133 LAUNCH FACILITIES (LF) AND LAUNCH CONTROL FACILITIES (LCF) PERFORMING MISSILE TARGETING AND COLLIMATOR SET

GROUP ID NUMBER AND TITLE: GRPO61, TECHNICAL ENGINEERING AND ANALYSIS TECHNICIANS (TEATS)

NUMBER IN GROUP: 16

PERCENT OF SAMPLE: 2%

MAJCOM DISTRIBUTION: SAC (94%), AFLC (6%)

DAFSC DISTRIBUTION: 31670G (75%), 31693 (25%)

AVERAGE GRADE: 6.3

JOB DIFFICULTY INDEX: 18.6

AVERAGE TIME IN CAREER FIELD: 141.3 MOS.

AVERAGE TIME IN SERVICE: 153.0 MOS.

PERCENT MEMBERS IN FIRST ENLISTMENT: NONE

AMOUNT OF SUPERVISION: 19% SUPERVISE AN AVERAGE OF ONE SUBORDINATE

AVERAGE NUMBER OF TASKS PERFORMED: 154

GROUP DIFFERENTIATING TASKS:

TASKS

B31 PERFORM TECHNICAL ENGINEERING DIVISION (TED) TEST EQUIPMENT EVALUATION OF MAINTENANCE PROBLEMS

A5 CONDUCT ENGINEERING STUDIES

A10 DEVELOP WEAPONS SYSTEMS ENGINEERING OR PROCEDURAL CHANGES

B29 PERFORM FAILURE DATA ANALYSIS FOR MAINTENANCE PROBLEMS

H21 READ OR INTERPRET LOGIC DIAGRAMS

DU	TY	AVERAGE TIME SPENT BY ALL MEMBERS
A	ORGANIZING AND PLANNING	13
В	DIRECTING AND IMPLEMENTING	13
Н	PERFORMING GENERAL MISSILE MAINTENANCE	13
Μ	MAINTAINING MISSILE CONTROL AND MONITORING ELECTRONIC	
	SYSTEMS	12
E	PERFORMING MAINTENANCE ADMINISTRATION FUNCTIONS	11

GROUP ID NUMBER AND TITLE: GRP097, AFS 316X2G, MISSILE ELECTRONIC EQUIPMENT SPECIALISTS (MEES)

NUMBER IN GROUP: 30

PERCENT OF SAMPLE: 4%

MAJCOM DISTRIBUTION: SAC (100%)

DAFSC DISTRIBUTION: 31632G (6%), 31652G (77%), 31672 (17%)

AVERAGE GRADE: 4.2

JOB DIFFICULTY INDEX: 18.9

AVERAGE TIME IN CAREER FIELD: 47.3 MOS.

AVERAGE TIME IN SERVICE: 60.4 MOS.

PERCENT MEMBERS IN FIRST ENLISTMENT: 50%

AMOUNT OF SUPERVISION: 37% SUPERVISE AN AVERAGE OF TWO SUBORDINATES

AVERAGE NUMBER OF TASKS PERFORMED: 201

GROUP DIFFERENTIATING TASKS:

TASKS

046 PERFORM FUNCTIONAL CHECKS OF PP-3030/B/GSW-4, PP-3026/B/GSW-4, OR PP-3027/GSW-4 POWER SUPPLIES

V98 SAFETY-WIRE EQUIPMENT

054 PERFORM FUNCTIONAL CHECKS OF VOICE REPORTING SIGNAL ASSEMBLIES

P25 ISOLATE MALFUNCTIONS IN PP-3030/GSW-4, PP-3030/B/GSW-4, OR PP-3027/GSW-4 POWER SUPPLIES

P8 ISOLATE MALFUNCTIONS IN AN/GJM-28(C-91) PROGRAMMER FAULT LOCATOR TEST CENTER UNITS

DU	TY	AVERAGE TIME SPENT BY ALL MEMBERS
v	REPAIRING AND SERVICING MISSILE ELECTRONIC EQUIPMENT	22
0	PERFORMING FUNCTIONAL CHECKS AND SELF-TESTS OF WS-1334	۱,
	WS-133A/M, AND WS-133A/M COMMAND DATA BUFFER (CDB) EQUIPMENT	14
Р	ISOLATING MALFUNCTIONS IN WS-133A, WS-133A/M, AND	
	WS-133A/M CDB EQUIPMENT	11
E	PERFORMING MAINTENANCE ADMINISTRATION FUNCTIONS	9
Q	CALIBRATING AND ADJUSTING WS-133A, WS-133A/M, AND	
	WS-133A/M CDB ELECTRONIC EQUIPMENT	8

GROUP ID NUMBER AND TITLE: GRP125, AFS 316X2H, MISSILE ELECTRONIC EQUIPMENT SPECIALISTS (MEES)

NUMBER IN GROUP: 8

PERCENT OF SAMPLE: 1%

MAJCOM DISTRIBUTION: SAC (100%)

DAFSC DISTRIBUTION: 31632H (13%), 31652H (74%), 31672H (13%)

AVERAGE GRADE: 4.0

JOB DIFFICULTY INDEX: 19.2

AVERAGE TIME IN CAREER FIELD: 29.5 MOS.

AVERAGE TIME IN SERVICE: 53.1 MOS.

PERCENT MEMBERS IN FIRST ENLISTMENT: 63%

AMOUNT OF SUPERVISION: 13% SUPERVISE AN AVERAGE OF TWO PERSONNEL

AVERAGE NUMBER OF TASKS PERFORMED: 178

GROUP DIFFERENTIATING TASKS:

TASKS

- S13 PERFORM FUNCTIONAL CHECKS OF AN/GSM-139 MAINTENANCE GROUND EQUIPMENT TEST SETS
- S47 PERFORM SELF-TESTS OF AN/GSM-145 MAINTENANCE GROUND EQUIPMENT TEST SETS
- T32 ISOLATE MALFUNCTIONS IN UNITS OF AN/GSM-139 MAINTENANCE GROUND EQUIPMENT TEST SETS
- T43 ISOLATE MALFUNCTIONS IN UNIVAC TYPE 1218 DIGITAL DATA COMPUTERS
- U17 CALIBRATE OR ADJUST UNITS OF AN/GSM-145 MAINTENANCE GROUND EQUIPMENT TEST SETS

DU		AVERAGE TIME SPENT BY ALL MEMBERS
v	REPAIRING AND SERVICING MISSILE ELECTRONIC EQUIPMENT	20
S	PERFORMING FUNCTIONAL CHECKS AND SELF-TESTS OF WS-133	В
	ELECTRONIC EQUIPMENT	15
Т	ISOLATING MALFUNCTIONS IN WS-133B ELECTRONIC	
	EQUIPMENT	11
W	PERFORMING GENERAL SHOP MAINTENANCE	9
U	CALIBRATING AND ADJUSTING WS-133B ELECTRONIC	
	EQUIPMENT	8

GROUP ID NUMBER AND TITLE:GRP026, SUPERVISION AND SUPPORT PERSONNELNUMBER IN GROUP:145PERCENT OF SAMPLE:18%MAJCOM DISTRIBUTION:SAC (90%), ATC (8%), OTHER (2%)DAFSC DISTRIBUTION:316X0G (82%), 316X2G (6%), 316X2H (1%), 31693 (10%),

NOT REPORTED (1%)

AVERAGE GRADE: 6.1

JOB DIFFICULTY INDEX: 12.1

AVERAGE TIME IN CAREER FIELD: 111.6 MOS.

AVERAGE TIME IN SERVICE: 146.6 MOS.

PERCENT MEMBERS IN FIRST ENLISTMENT: 4%

AMOUNT OF SUPERVISION: 56% SUPERVISE AN AVERAGE OF SIX SUBORDINATES

AVERAGE NUMBER OF TASKS PERFORMED: 68

GROUP DIFFERENTIATING TASKS:

TASKS

A40 PREPARE FOR INSPECTIONS
B12 DRAFT CORRESPONDENCE
A6 CONDUCT OR PARTICIPATE IN STAFF MEETINGS
B25 INITIATE CORRECTIVE ACTIONS BASED ON INSPECTION REPORTS
C35 REVIEW CORRESPONDENCE OR REPORTS

DU	<u>TTY</u>	AVERAGE TIME SPENT BY ALL MEMBERS
В	DIRECTING AND IMPLEMENTING	23
Α	ORGANIZING AND PLANNING	21
С	INSPECTING AND EVALUATING	17
E	PERFORMING MAINTENANCE ADMINISTRATION FUNCTIONS	14
D	TRAINING	11

GROUP ID NUMBER AND TITLE:GRP039, MAINTENANCE CONTROL PERSONNELNUMBER IN GROUP:83PERCENT OF SAMPLE:10%MAJCOM DISTRIBUTION:SAC (90%), ATC (8%), OTHER (2%)DAFSC DISTRIBUTION:31650G (55%), 31670G (45%)AVERAGE GRADE:4.8JOB DIFFICULTY INDEX:7.6AVERAGE TIME IN CAREER FIELD:72.1 MOS.AVERAGE TIME IN SERVICE:88.9 MOS.PERCENT MEMBERS IN FIRST ENLISTMENT:12%AMOUNT OF SUPERVISION:27% SUPERVISE AN AVERAGE OF TWO SUBORDINATESAVERAGE NUMBER OF TASKS PERFORMED:25GROUP DIFFERENTIATING TASKS:TASKSA1ASSIGN OR COORDINATE ACTIVITIES OF MAINTENANCE SPECIALISTS

AIT ASSIGN ON COORDINATE ACTIVITIES OF HAINTENANCE SPECIALISTS
B47 UPDATE OR ANNOTATE STATUS BOARDS
B11 DISPATCH MAINTENANCE TECHNICIANS TO WORK AREAS
A17 ESTABLISH WORK PRIORITIES
E38 REVIEW OR UPDATE MAINTENANCE MANAGEMENT INFORMATION CONTROL SYSTEMS (MMICS) OUTPUT DATA

DUTY	BY ALL MEMBERS
B DIRECTING AND IMPLEMENTING	37
A ORGANIZING AND PLANNING	31
E PERFORMING MAINTENANCE ADMINISTRATION FUNCTIONS	20
W PERFORMING GENERAL SHOP MAINTENANCE	6
C INSPECTING AND EVALUATING	3

APPENDIX B

APPENDIX B

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CONSOLIDATED CAREER LADDER TABLE

JOB GI	ROUPS WITHIN FUNCTIONAL AREAS	PERCENT OF SAMPLE
Ι.	Electromechanical Team (EMT) Members, (GRP059) - WS-133B/I, LGM-30G EMT (GRP115) - WS-133AM/AM-I, LGM-30F EMT (GRP140) - WS-133AM-1, LGM-30G EMT (GRP102)	33%
11.	Site Security Maintenance Team Members (GRP148)	8%
111.	Combat Targeting Team (CTT) Members (GRP064) - LGM-30F CTT (GRP149) - LGM-30G CTT (GRP080)	12%
IV.	Technical Engineering and Analysis Technicia (TEATs) (GRP061)	ans 2%
v.	AFS 316X2G MEES (GRP097)	4%
VI.	AFS 316X2H MEES (GRP125)	1%
V11.	Supervision and Support Personnel (GRP026) - Training Instructors (GRP049) - Supervisors (Field/Staff) (GRP037) - Inspectors/Evaluators (GRP093) - Trainer Maintainers (GRP070)	18%
VIII.	Maintenance Control Personnel (GRP039) - Briefers/Debriefers (GRP051)	10%

Weapon System Controllers (GRP078)
Maintenance Schedulers (GRP066)

B 1

	GRP059	
CDD115		
GRP115 (N=41)	GRP140 (N=128)	GRP102 (N=104)

ELECTROMECHANICAL TEAM (EMT) MEMBERS (GRP059)

All EMT members reported performing tasks related to "on-site" maintenance of launch and launch control facilities. These three EMT groups were distinguished, primarily, by wing-specific tasks such as maintaining missile systems, environmental control systems, or missile control and monitoring electronic systems at Wings I-X and VI-W, at Wings I, II, and IV, or at Wings III and V. Further differences were based on the relative percent time spent on tasks in specific duties and on tasks related to the LGM-30F or the LGM-30G missile system.

<u>WS-133B/I, LGM-30G EMT (GRP115)</u>. The 41 respondents in this group account for five percent of the sample and for 15 percent of EMT personnel who were identified in the analysis. These group members spend more of their time maintaining LGM-30 missile systems. More of these respondents reported maintaining URD-6409 power supply and battery charger sets than did members of the two other EMT groups. Three Wing-distinctive subgroups comprised this job type. Wing VI EMT members; Wing 0 EMT members assigned to the 394th ICBM Test Maintenance Squadron; and Wing I EMT members, team chiefs, and TTB instructors. Compared to the two other EMT job types, this group had the lowest percentage of first enlistment members (51%) and the highest percentage of personnel who reported that they intend to reenlist (56%). This group possessed the most experienced specialists, averaging 48.6 months in the career field.

WS-133AM/AM-1, LGM-30F EMT (GRP140). This group of 128 EMT personnel represents 15 percent of the total sample and 46 percent of all EMT identified during analysis. These respondents spend more than 13 percent of their job time performing maintenance tasks on missile control and monitoring electronic systems such as operationally checking guidance and control couplers and removing or installing launch facility site tailoring plugs. As with GRP102, these respondents reported they maintain VRSA equipment. This group has 67 percent of its members in their first enlistment and 65 percent said they probably will not reenlist. The majority of GRP115 and GRP140 respondents reported that they believed their training is being used at least fairly well. This group consists of respondents from Wings O, I, II, and IV with job titles reported as team members, team chiefs, TTB instructors, and QC Evaluators. WS-133AM/I, LGM-30G EMT (GRP102). With this group of 104 members, 13 percent of the total sample and 39 percent of the EMT sample is represented. This job type is almost exclusively composed of Wings III and V personnel. These group members spend more time maintaining missile facility environmental control systems than do members of the two other EMT groups. Seventy-two percent of these respondents reported servicing environmental control brine systems. Approximately 76 percent of these members are in their first enlistment, and 36 percent reported they will probably reenlist. This group has the least experienced personnel, averaging 36 months in the career field and 44 months in the service. Job titles of group members includes team members, team chiefs, TTB instructors, and QC Evaluators. GROUP ID NUMBER AND TITLE: GRP115, WS-133B/I, LGM-30G EMT NUMBER IN GROUP: 41 PERCENT OF SAMPLE: 5% MAJCOM DISTRIBUTION: SAC (95%), ATC (5%) DAFSC DISTRIBUTION: 31630G (5%), 31650G (66%), 31670G (28%) AVERAGE GRADE: 4.1 JOB DIFFICULTY INDEX: 17.3 AVERAGE TIME IN CAREER FIELD: 48.6 MOS. AVERAGE TIME IN SERVICE: 61.5 MOS. PERCENT MEMBERS IN FIRST ENLISTMENT: 51% AMOUNT OF SUPERVISION: 23% SUPERVISE AN AVERAGE OF ONE SUBORDINATE EXPRESSED JOB INTEREST: DULL (20%), SO-SO (22%), INTERESTING (58%), PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 37% FAIRLY WELL OR BETTER 63% PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 27% FAIRLY WELL OR BETTER 73% AVERAGE NUMBER OF TASKS PERFORMED: 183 GROUP IDFFERENTIATING TASKS: TASKS K30 ISOLATE MALFUNCTIONS IN WING 6 OR 1-X LCF MOTOR GENERATORS

ISOLATE MALFUNCTIONS IN WING 6 OR 1-X LCF MOTOR GENERATORSJ34PERFORM MISSILE SYSTEMS TESTSM38PERFORM CHECKOUTS OF MF RADIO EQUIPMENTJ51REMOVE OR INSTALL COMPONENTS OF LF URD-6409 POWER SUPPLY SETS

DU	ΓY	AVERAGE TIME SPENT BY ALL MEMBERS
ĸ	MAINTAINING MISSILE FACILITY ELECTRICAL POWER SYSTEMS	20
Н	PERFORMING GENERAL MISSILE MAINTENANCE	16
I	MAINTAINING WS-133 LAUNCH FACILITIES (LF) AND LAUNCH	
	CONTROL FACILITIES (LCF)	15
J	MAINTAINING LGM-30 MISSILE SYSTEMS	13

GROUP ID NUMBER AND TITLE: GRP140, WS-133AM/AM-I, LGM-30F EMT NUMBER IN GROUP: 128 PERCENT OF SAMPLE: 15% MAJCOM DISTRIBUTION: SAC (98%), OTHER (2%) DAFSC DISTRIBUTION: 31630G (12%), 31650G (75%), 31670G (13%) AVERAGE GRADE: 3.8 JOB DIFFICULTY INDEX: 16.6 AVERAGE TIME IN CAREER FIELD: 37.0 MOS. AVERAGE TIME IN SERVICE: 48.8 MOS. PERCENT MEMBERS IN FIRST ENLISTMENT: 67% AMOUNT OF SUPERVISION: 26% SUPERVISE AN AVERAGE OF TWO SUBORDINATES EXPRESSED JOB INTEREST: DULL (18%), SO-SO (21%), INTERESTING (57%), NOT REPORTED (1%) PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 38% FAIRLY WELL OR BETTER 61% NOT REPORTED 1% PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 19% FAIRLY WELL OR BETTER 80%

NOT REPORTED

1%

AUTOLOD THE ODDAT

AVERAGE NUMBER OF TASKS PERFORMED: 186

GROUP DIFFERENTIATING TASKS:

TASKS

K134 REMOVE OR INSTALL WING 1, 2, OR 4 LF MOTOR GENERATORS
K120 PERFORM WING 1, 2, OR 4 POWER FAULT TO GROUND CHECKS
M90 REMOVE OR INSTALL VOICE REPORTING SIGNAL ASSEMBLIES (VRSA)
M79 REMOVE OR INSTALL LF SITE TAILORING PLUGS

TIME SPENT ON DUTIES:

DU	TY	BY ALL MEMBERS
ĸ	MAINTAINING MISSILE FACILITY ELECTRICAL POWER	
	SYSTEMS	22
H	PERFORMING GENERAL MISSILE MAINTENANCE	17
I	MAINTAINING WS-133 LAUNCH FACILITIES (LF) AND LAUNCH	
	CONTROL FACILITIES (LCF)	14
M	MAINTAINING MISSILE CONTROL AND MONITORING ELECTRONIC	
	SYSTEMS	13

GROUP ID NUMBER AND TITLE: GRP102, WS-133AM/I, LGM-30G EMT NUMBER IN GROUP: 104 PERCENT OF SAMPLE: 13% MAJCOM DISTRIBUTION: SAC (100%) DAFSC DISTRIBUTION: 31630G (19%), 31650G (67%), 31670G (14%) AVERAGE GRADE: 3.8 JOB DIFFICULTY INDEX: 16.9 AVERAGE TIME IN CAREER FIELD: 36 MOS AVERAGE TIME IN SERVICE: 43.5 MOS PERCENT MEMBERS IN FIRST ENLISTMENT: 76% AMOUNT OF SUPERVISION: 25% SUPERVISE AN AVERAGE OF THREE SUBORDINATES EXPRESSED JOB INTEREST: DULL (15%), SO-SO (26%), INTERESTING (53%), NOT REPORTED (6%) PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 43% FAIRLY WELL OR BETTER 54% NOT REPORTED 3% PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 25% FAIRLY WELL OR BETTER 71% NOT REPORTED 4%

AVERAGE NUMBER OF TASKS PERFORMED: 191

GROUP DIFFERENTIATING TASKS:

TASKS

L19	ISOLATE	MALFUNCTIONS	IN	WING	3	OR 5	LCF	ECS

- K24 ISOLATE MALFUNCTIONS IN WING 3 OR 5 LF DISTRIBUTION BOXES
- L71 SERVICE ENVIRONMENTAL CONTROL BRINE SYSTEMS

L26 ISOLATE MALFUNCTIONS IN WING 3, 4, OR 5 LAUNCH CONTROL CENTER (LCC)/LAUNCH CONTROL EQUIPMENT BUILDING MONITOR PANELS

TIME SPENT ON DUTIES:

DI	TY	AVERAGE TIME SPENT BY ALL MEMBERS
K	MAINTAINING MISSILE FACILITY ELECTRICAL POWER SYSTEMS	3 21
Н	PERFORMING GENERAL MISSILE MAINTENANCE	16
Ι	MAINTAINING WS-133 LAUNCH FACILITIES (LF) AND LAUNCH	
	CONTROL FACILITIES (LCF)	13
L	MAINTAINING MISSILE FACILITY ENVIRONMENTAL CONTROL SYSTEMS	10

COMBAT TARGETING TEAMS (CTT)

GRP	064
r	
GRP149	GRP080
(N=50)	(N=46)

LGM-30F CTT (GRP149). The 50 members of this group represent six percent of the survey sample and 52 percent of CTT respondents. Respondents represent Wings, I, II, and IV where WS-133AM/AM-I and LGM-30F systems are maintained. Compared to the LGM-30G CTT respondents (discussed below), this group is more experienced. The performance of tasks relating to collimator and alignment maintenance distinguishes this group from the other group. Although 66 percent of these respondents reported being in their first enlistment, 42 percent of the members responded they would or probably would reenlist. The use of azimuth alignment mirrors, theodolites, collimator test sets, and azimuth laying sets further distinguishes this group from LGM-30G CTT respondents.

LGM-30G CTT (GRP080). Representing 48 percent of CTT respondents, these 46 group members perform missile CSD code changes, downgrade computer memory information, inspect shock isolators, and perform colorimetric tests related to LGM-30G systems. These group members represent Wings III, V, and VI. The average time in service for these respondents is 34 months, with 87 percent of these incumbents in their first enlistment. Equipment distinguishing this group from LGM-30F respondents were digital voltmeters, magnetic tape units, and colorimetric gas detectors. Respondents with DAFSCs 31630G and 31650G accounted for 98 percent of this group's members. GROUP ID NUMBER AND TITLE: GRP149, LGM-30F CTT NUMBER IN GROUP: 50 PERCENT OF SAMPLE: 6% MAJCOM DISTRIBUTION: SAC (100%) DAFSC DISTRIBUTION: 31630G (22%), 31650G (62%), 31670G (14%), 31693 (2%) AVERAGE GRADE: 4.0 JOB DIFFICULTY INDEX: 9.7 AVERAGE TIME IN CAREER FIELD: 41.7 MOS AVERAGE TIME IN SERVICE: 48.1 MOS PERCENT MEMBERS IN FIRST ENLISTMENT: 66% AMOUNT OF SUPERVISION: 6% SUPERVISE AN AVERAGE OF THREE SUBORDINATES EXPRESSED JOB INTEREST: DULL (24%), SO-SO (28%), INTERESTING (48%), PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 56% FAIRLY WELL OR BETTER 42% NOT REPORTED 2% PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 42% FAIRLY WELL OR BETTER 54% NOT REPORTED 4%

AVERAGE NUMBER OF TASKS PERFORMED: 72

GROUP DIFFERENTIATING TASKS:

TASKS

DUTY

N3 CALCULATE REFERENCE MIRROR AZIMUTHS N8 MEASURE MISSILE CENTER LINE OFFSET N10 PERFORM COLLIMATOR CHECKOUTS N21 REMOVE OR INSTALL COLLIMATORS OR COLLIMATOR COMPONENTS N24 REMOVE OR INSTALL REFERENCE MIRRORS

TIME SPENT ON DUTIES:

ALIGNMENT FUNCTIONS

AVERAGE TIME SPENT BY ALL MEMBERS N PERFORMING MISSILE TARGETING AND COLLIMATOR SET 26 H PERFORMING GENERAL MISSILE MAINTENANCE 20

1	MAINTAINING WS-133 LAUNCH FACILITIES (LF) AND LAUNCH	
	CONTROL FACILITIES (LCF)	14
W	PERFORMING GENERAL SHOP MAINTENANCE	8
J	MAINTAINING LGM-30 MISSILE SYSTEMS	7

GROUP ID NUMBER AND TITLE: GRP080, LGM-30G CTT NUMBER IN GROUP: 46 PERCENT OF SAMPLE: 6% MAJCOM DISTRIBUTION: SAC (100%) DAFSC DISTRIBUTION: 31630G (24%), 31650G (74%), 31670G (2%) AVERAGE GRADE: 3.4 JOB DIFFICULTY INDEX: 9.2 AVERAGE TIME IN CAREER FIELD: 29.6 MOS AVERAGE TIME IN SERVICE: 33.7 MOS PERCENT MEMBERS IN FIRST ENLISTMENT: 87% AMOUNT OF SUPERVISION: ONE INDIVIDUAL SUPERVISES ONE OTHER INDIVIDUAL EXPRESSED JOB INTEREST: DULL (20%), SO-SO (30%), INTERESTING (46%), NOT REPORTED (4%) PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 44% FAIRLY WELL OR BETTER 56% PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 35% FAIRLY WELL OR BETTER 65% AVERAGE NUMBER OF TASKS PERFORMED: 75 GROUP DIFFERENTIATING TASKS: TASKS H15 PERFORM OPERATIONAL CHECKS OF MAINTENANCE VEHICLE HOISTING EQUIPMENT 117 INSPECT SHOCK ISOLATORS 153 PERFORM COLORIMETRIC TESTS **1109 REMOVE OR INSTALL PAS FOLDING LADDERS** TIME SPENT ON DUTIES:

AVERAGE TIME SPENT DUTY BY ALL MEMBERS H PERFORMING GENERAL MISSILE MAINTENANCE 27 I MAINTAINING WS-133 LAUNCH FACILITIES (LF) AND LAUNCH CONTROL FACILITIES (LCF) 22 J MAINTAINING LGM-30 MISSILE SYSTEMS 7 W PERFORMING GENERAL SHOP MAINTENANCE 6 M MAINTAINING MISSILE CONTROL AND MONITORING ELECTRONIC SYSTEMS 6

SUPERVISION AND SUPPORT (GRP026)

	GRP0	26	
CPD040	CPD027	CDD002	CPD070
GRP049 (N=14)	GRP037 (N=93)	GRP093 (N=13)	GRP070 (N=7)

Training Instructors (GRP049). These 14 respondents represent two percent of the survey sample. They are primarily ATC technical training instructors and SAC Training NCOs. Tasks such as administering tests, reviewing lesson plans, and conducting on-the-job training account for 37 percent of their job time. Most of these 5- and 7-skill level respondents reported that their jobs are interesting and use their training fairly well or better. Likewise, most stated they intend to reenlist.

<u>Supervisors (Field/Staff) (GRP032)</u>. Representing 11 percent of the survey respondents, these 93 members spend 54 percent of their job time performing tasks related to organizing, planning, directing and implementing. Their levels of supervision range from flight chiefs to headquarters-level NCOICs while their areas of supervision include both operations (NCOIC EMT Branch) and support (NCOIC Data Management) functions.

Inspectors/Evaluators (GRP093). These 13 personnel account for two percent of the survey sample and represent all three specialties. Members of this group are headquarters staff and field inspectors who evaluate personnel performance, safety practices, and security policies. Approximately 37 percent of their job time is spent on inspection/ evaluation tasks. All of these respondents report that their jobs use their training fairly well or better.

Trainer Maintenance Personnel (GRP070). Approximately 35 percent of these seven respondents' job time is spent maintaining 316X0G trainers. Forty-three percent of these members reported their jobs as interesting, while 57 percent responded that their jobs use their training fairly well or better. Two of the seven group members reported being in their first enlistment.

GROUP ID NUMBER AND TITLE: GRP049, TRAINING INSTRUCTORS NUMBER IN GROUP: 14 PERCENT OF SAMPLE: 2% MAJCOM DISTRIBUTION: SAC (64%), ATC (36%) DAFSC DISTRIBUTION: 31650G (50%), 31670G (50%) AVERAGE GRADE: 5.1 JOB DIFFICULTY INDEX: 9.4 AVERAGE TIME IN CAREER FIELD: 88.2 MOS AVERAGE TIME IN SERVICE: 96.8 MOS PERCENT MEMBERS IN FIRST ENLISTMENT: 11% AMOUNT OF SUPERVISION: ONE INDIVIDUAL SUPERVISES SIX PERSONNEL EXPRESSED JOB INTEREST: DULL (21%), SO-SO (14%), INTERESTING (58%), NOT REPORTED (7%) PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 14% FAIRLY WELL OR BETTER 86% PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 29% FAIRLY WELL OR BETTER 71% AVERAGE NUMBER OF TASKS PERFORMED: 32 GROUP DIFFERENTIATING TASKS:

TASKS

D1ADMINISTER OR SCORE ORAL, WRITTEN, OR PERFORMANCE TESTSD2ARRANGE FOR TRAINING AIDS, SPACE, OR EQUIPMENTD17DEVELOP OR REVIEW LESSON PLANSD36PREPARE TRAINING MATERIALSD9CONDUCT ON-THE-JOB TRAINING (OJT)

TIME SPENT ON DUTIES:

DUTY

AVERAGE TIME SPENT BY ALL MEMBERS

37
17
14
10

GROUP ID NUMBER AND TITLE: GRP037, SUPERVISORS (FIELD/STAFF) NUMBER IN GROUP: 93 PERCENT OF SAMPLE: 11% MAJCOM DISTRIBUTION: SAC (89%), ATC (7%), OTHER (4%) DAFSC DISTRIBUTION: 316X0G (77%), 316X2G(7%), 31693 (16%) AVERAGE GRADE: 6.3 JOB DIFFICULTY INDEX: 12.5 AVERAGE TIME IN CAREER FIELD: 116.3 MOS AVERAGE TIME IN SERVICE: 159.8 MOS PERCENT MEMBERS IN FIRST ENLISTMENT: 1% AMOUNT OF SUPERVISION: 76% SUPERVISE AN AVERAGE OF SIX SUBORDINATES EXPRESSED JOB INTEREST: DULL (10%), SO-SO (9%), INTERESTING (74%), NOT REPORTED (7%) PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 19% FAIRLY WELL OR BETTER 77% NOT REPORTED 4% PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 34% FAIRLY WELL OR BETTER 65% NOT REPORTED 1%

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AVERAGE NUMBER OF TASKS PERFORMED: 47

GROUP DIFFERENTIATING TASKS:

TASKS

A40 PREPARE FOR INSPECTIONS
B12 DRAFT CORRESPONDENCE
B33 PREPARE OR INDORSE AIRMAN PERFORMANCE REPORTS (APR)
A6 CONDUCT OR PARTICIPATE IN STAFF MEETINGS
C35 REVIEW CORRESPONDENCE OR REPORTS

DUTY	AVERAGE TIME SPENT BY ALL MEMBERS
B DIRECTING AND IMPLEMENTING	29
A ORGANIZING AND PLANNING	25
E PERFORMING MAINTENANCE ADMINISTRATION FUNCTIONS	17
C INSPECTING AND EVALUATING	14
D TRAINING	9

GROUP ID NUMBER AND TITLE: GRP093, INSPECTORS/EVALUATORS NUMBER IN GROUP: 13 PERCENT OF SAMPLE: 2% MAJCOM DISTRIBUTION: SAC (100%) DAFSC DISTRIBUTION: 316X0G (70%), 316X2G (15%), 316X2H (15%) JOB DIFFICULTY INDEX: 14.1 AVERAGE GRADE: 6.0 AVERAGE TIME IN CAREER FIELD: 102.0 MOS AVERAGE TIME IN SERVICE: 131.3 MOS PERCENT MEMBERS IN FIRST ENLISTMENT: 8% AMOUNT OF SUPERVISION: 23% SUPERVISE AN AVERAGE OF ONE SUBORDINATE EXPRESSED JOB INTEREST: DULL (8%), SO-SO (8%), INTERESTING (69%), NOT REPORTED (15%) PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 15% FAIRLY WELL OR BETTER 85% PERCEIVED UTILIZATION OF TRAINING: FAIRLY WELL OR BETTER 100% AVERAGE NUMBER OF TASKS PERFORMED: 73

GROUP DIFFERENTIATING TASKS:

TASKS

C5 EVALUATE COMPLIANCE WITH MAINTENANCE POLICIES OR PROCEDURES C11 EVALUATE PERSONNEL PERFORMING MAINTENANCE TASKS C14 EVALUATE SAFETY PRACTICES OR PROCEDURES A28 PARTICIPATE IN TECHNICAL ORDER POST-PUBLICATION REVIEWS B14 DRAFT RECOMMENDATIONS FOR CHANGES TO TECHNICAL PUBLICATIONS TIME SPENT ON DUTIES:

DUTYAVERAGE TIME SPENT
BY ALL MEMBERSCINSPECTING AND EVALUATING37AORGANIZING AND PLANNING24BDIRECTING AND IMPLEMENTING9EPERFORMING MAINTENANCE ADMINISTRATION FUNCTIONS8DTRAINING6

GROUP ID NUMBER AND TITLE: GRP070, TRAINER MAINTENANCE PERSONNEL PERCENT OF SAMPLE: 1% NUMBER IN GROUP: 7 MAJCOM DISTRIBUTION: SAC (100%) DAFSC DISTRIBUTION: 31630G (14%), 31650G (43%), 31670G (43%) AVERAGE GRADE: 4.9 JOB DIFFCULTY INDEX: 13.7 AVERAGE TIME IN CAREER FIELD: 69.4 MOS AVERAGE TIME IN SERVICE: 86.6 MOS PERCENT MEMBERS IN FIRST ENLISTMENT: 29% AMOUNT OF SUPERVISION: 43% SUPERVISE AN AVERAGE OF ONE SUBORDINATE EXPRESSED JOB INTEREST: DULL (29%), SO-SO (14%), INTERESTING (43%), NOT REPORTED (14%) PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 14% FAIRLY WELL OR BETTER 86% PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 43% FAIRLY WELL OR BETTER 57% AVERAGE NUMBER OF TASKS PERFORMED: 81 GROUP DIFFERENTIATING TASKS:

TASKS

G14 ISOLATE MALFUNCTIONS OF AN/GSQ-T34 CMPT
G29 PERFORM CHECKOUTS OF AN/GSQ-T28 OR AN/GSQ-T29 CMPT
G63 PERFORM STARTUPS, SHUTDOWNS, OR INADVERTENT SHUTDOWNS OF AN/GSQ-T38 ADAPTER SET PROCEDURES TRAINERS
E10 INITIATE OR ANNOTATE MAINTENANCE DATA COLLECTION FORMS
E42 TAG SERVICEABLE OR UNSERVICEABLE EQUIPMENT

TIME SPENT ON DUTIES:

DU	TY	AVERAGE TIME SPENT BY ALL MEMBERS
G	PERFORMING TRAINER MAINTENANCE	35
E	PERFORMING MAINTENANCE ADMINISTRATION FUNCTIONS	28
Н	PERFORMING GENERAL MISSILE MAINTENANCE	11
W	PERFORMING GENERAL SHOP MAINTENANCE	7

MAINTENANCE CONTROL PERSONNEL (GRP039)

1	1	1
GRP051	GRP078	GRP066
(N=19)	(N=53)	(N=8)

This functional area is exclusively manned by 5- and 7-skill level AFS 316X0G respondents.

Briefers/Debriefers (GRP051). These 19 respondents perform an average of 14 tasks which are generally related to briefing and debriefing maintenance teams. Across all job groups in this survey, these respondents reported the least interesting job and the lowest utilization of their training. However, 63 percent of these members indicated that they would or probably would reenlist. First enlistment members account for 21 percent of this group's membership.

Weapon System Controllers (GRP078). Two primary subgroups identified within this group of 53 respondents (representing six percent of the survey sample) were dispatchers (N=11) and weapon system controllers (N=36). These respondents essentially implement the day to day scheduled activities of AFS 316X0G personnel. They perform such tasks as dispatch maintenance personnel to work areas, update status boards, and complete maintenance logs. All members in this group spend most of their time (71 percent) performing tasks related to Organizing and Planning (Duty A) and Directing and Implementing (Duty B). Five of these respondents indicated that they are in their first enlistment.

<u>Maintenance Schedulers (GRP066)</u>. These eight respondents represent one percent of the sample. These scheduling personnel spend over 30 percent of their time planning and scheduling work assignments and assigning or coordinating activities of maintenance personnel. These respondents build the schedules which will be implemented by the controllers. They reported performing the narrowest job of any group in this survey, averaging only nine tasks. The average grade for these respondents is 4.8 while their average time in the service is 91 months.

GROUP ID NUMBER AND TITLE: GRP051, BRIEFERS/DEBRIEFERS

NUMBER IN GROUP: 19

MAJCOM DISTRIBUTION: SAC (100%)

DAFSC DISTRIBUTION: 31650G (68%), 31670G (32%)

AVERAGE GRADE: 4.9

JOB DIFFICULTY INDEX: 4.9

PERCENT OF SAMPLE: 2%

AVERAGE TIME IN CAREER FIELD: 77.4 MOS

AVERAGE TIME IN SERVICE: 96.2 MOS

PERCENT MEMBERS IN FIRST ENLISTMENT: 21%

AMOUNT OF SUPERVISION: 26% SUPERVISE AN AVERAGE OF THREE SUBORDINATES

EXPRESSED JOB INTEREST: DULL (21%), SO-SO (37%), INTERESTING (31%), NOT REPORTED (11%)

PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 79% FAIRLY WELL OR BETTER 16% NOT REPORTED 5%

PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 84% FAIRLY WELL OR BETTER 16%

AVERAGE NUMBER OF TASKS PERFORMED: 14

GROUP DIFFERENTIATING TASKS:

TASKS

B4 CONDUCT PRE-DISPATCH MAINTENANCE BRIEFINGS
A35 PLAN, PREPARE, OR PRESENT BRIEFINGS
A40 PREPARE FOR INSPECTIONS
B47 UPDATE OR ANNOTATE STATUS BOARDS
E34 REVIEW MAINTENANCE DATA COLLECTION FORMS

DU	TY	AVERAGE TIME SPENT BY ALL MEMBERS
в	DIRECTING AND IMPLEMENTING	31
E	PERFORMING MAINTENANCE ADMINISTRATION FUNCTIONS	31
A	ORGANIZING AND PLANNING	23
W	PERFORMING GENERAL SHOP MAINTENANCE	12

GROUP ID NUMBER AND TITLE: GRP078, WEAPON SYSTEM CONTROLLERS NUMBER IN GROUP: 53 PERCENT OF SAMPLE: 6% MAJCOM DISTRIBUTION: SAC (100%) DAFSC DISTRIBUTION: 31650G (51%), 31670G (49%) AVERAGE GRADE: 4.8 JOB DIFFICULTY INDEX: 8.1 AVERAGE TIME IN CAREER FIELD: 71.6 MOS AVERAGE TIME IN SERVICE: 85.6 MOS PERCENT MEMBERS IN FIRST ENLISTMENT: 11% AMOUNT OF SUPERVISION: 30% SUPERVISE AN AVERAGE OF TWO SUBORDINATES EXPRESSED JOB INTEREST: DULL (2%), SO-SO (9%), INTERESTING (85%), NOT REPORTED (4%) PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 17% FAIRLY WELL OR BETTER 83% PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 19% FAIRLY WELL OR BETTER 79% NOT REPORTED 2% AVERAGE NUMBER OF TASKS PERFORMED: 27

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GROUP DIFFERENTIATING TASKS:

TASKS

B11 DISPATCH MAINTENANCE TECHNICIANS TO WORK AREAS
B20 IMPLEMENT MAINTENANCE CONTROL WORK METHODS
B47 UPDATE OR ANNOTATE STATUS BOARDS
A17 ESTABLISH WORK PRIORITIES

TIME SPENT ON DUTIES:

DUTY	AVERAGE TIME SPENT BY ALL MEMBERS
B DIRECTING AND IMPLEMENTING	41
A ORGANIZING AND PLANNING	30
E PERFORMING MAINTENANCE ADMINISTRATION FUNCTIONS	18
W PERFORMING GENERAL SHOP MAINTENANCE	4

GROUP ID NUMBER AND TITLE: GRP066, MAINTENANCE SCHEDULERS NUMBER IN GROUP: 8 PERCENT OF SAMPLE: 1% MAJCOM DISTRIBUTION: SAC (100%) DAFSC DISTRIBUTION: 31650G (50%), 31670G (50%) AVERAGE GRADE: 4.8 JOB DIFFICULTY INDEX: 7.7 AVERAGE TIME IN CAREER FIELD: 62.4 MOS AVERAGE TIME IN SERVICE: 91.0 MOS PERCENT MEMBERS IN FIRST ENLISTMENT: NONE AMOUNT OF SUPERVISION: ONE INDIVIDUAL SUPERVISES TWO PERSONNEL EXPRESSED JOB INTEREST: DULL (13%), SO-SO (13%), INTERESTING (61%), NOT REPORTED (13%) PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL 25% FAIRLY WELL OR BETTER 75% PERCEIVED UTILIZATION OF TRAINING: LITTLE OR NOT AT ALL 38% FAIRLY WELL OR BETTER 62% AVERAGE NUMBER OF TASKS PERFORMED: 9 GROUP DIFFERENTIATING TASKS:

TASKS

A17 ESTABLISH WORK PRIORITIES B34 PREPARE RECOMMENDATIONS FOR CHANGES IN EQUIPMENT OR PROCEDURES B35 PREPARE WEAPONS AUTHORIZATION SLIPS A45 SCHEDULE MISSILE MAINTENANCE INSPECTIONS

DU	TY	AVERAGE TIME SPENT BY ALL MEMBERS
A	ORGANIZING AND PLANNING	60
B	DIRECTING AND IMPLEMENTING	25
E	PERFORMING MAINTENANCE ADMINISTRATION FUNCTIONS	9
С	INSPECTING AND EVALUATING	3

APPENDIX C

DAFSC GROUPS AND AIR FORCE SPECIALTIES (AFSs)

DATA TABLES

TABLE I

REPRESENTATIVE TASKS PERFORMED BY AFS 316X0G RESPONDENTS (PERCENT MEMBERS PERFORMING)

TASKS	S	316X0G	316X2G	316X2H*
HIO	OPERATE MAINTENANCE VEHICLES	64	7	20
H17	PERFORM OPERATOR INSPECTIONS OF MAINTENANCE VEHICLES	61	7	10
H14	PERFORM DISPATCH VEHICLE OR EQUIPMENT TURN-IN PROCEDURES	60	7	0
114	INSPECT LF TELESCOPING LADDERS	59	0	0
115	INSPECT PAS SEALS, GASKETS, PRE-FORMED PACKING, OR HARDWARE	52	0	0
KJ	ADD WATER TO OR REMOVE WATER FROM STORAGE BATTERIES	48	0	0
HI	ASSEMBLE OR CONFIGURE MAINTENANCE TEAM VEHICLES, EQUIPMENT,			
	OR MATERIALS	45	0	0
173	PERFORM OR PRACTICE EMERGENCY WAR ORDER (EWO) LF EVACUATION			
	PROCEDURES	43	0	0
I88	RAISE OR LOWER MISSILE MAINTENANCE EQUIPMENT INTO OR FROM LF	38	0	0
137	OPERATE OR PERFORM OPERATIONAL CHECKS OF ELEVATOR WORK CAGES	33	0	0
* *	AFS 316X2H DATA PRESENTED FOR INFORMATION ONLY.			

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TABLE 11

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REPRESENTATIVE TASKS PERFORMED BY AFS 316X2G RESPONDENTS (PERCENT MEMBERS PERFORMING)

P8	ISOLATE MALEUNCTIONS IN AN/GJM-28(C-91) PROGRAMMER FAULT			
	LOCATOR TEST CENTER UNITS	1	71	0
035	CALIBRATE OR ADJUST VRSA	1	71	0
025	PERFORM FUNCTIONAL CHECKS OF AN/GSM-159 OR AN/GSM-159B TEST			
	ADAPTER GROUPS UNITS	1	63	0
015	PERFORM FUNCTIONAL CHECKS OF AN/GJ0-28(C-91) PROGRAMMER FAULT			
	LOCATOR TEST CENTER UNITS	2	61	0
044	PERFORM FUNCTIONAL CHECKS OF POWER AZIMUTH DRIVE CONTROLLERS	1	61	0
047	PERFORM FUNCTIONAL CHECKS OF PP-3267/GSM POWER SUPPLIES	1	61	0
P26	ISOLATE MALFUNCTIONS IN PP-3267/GSM POWER SUPPLIES	1	61	0
P39	ISOLATE MALFUNCTIONS IN POWER AZIMUTH DRIVE CONTROLLERS	0	61	0
018	CALIBRATE OR ADJUST PP-3030/B/GSW-4, PP-3026/B/GSW-4, OR			
	PP-3027/GSW-4 POWER SUPPLIES	0	61	0
925	CALIBRATE OR ADJUST UNITS OF AN/GJM-28(C-91) PROGRAMMER FAULT			
	LOCATOR TEST CENTER UNITS	0	61	0

* AFS 316X2H DATA PRESENTED FOR INFORMATION ONLY.

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TABLE III

REPRESENTATIVE TASKS PERFORMED BY AFS 316X2H RESPONDENTS (PERCENT MEMBERS PERFORMING)

TASKS		316X0G	316X2G	316X2H
S13	PERFORM FUNCTIONAL CHECKS OF AN/GSM-139 MAINTENANCE GROUND			
	EQUIPMENT TEST SETS	0	0	80
544	PERFORM SELF-TESTS OF AN/GSM-131 POWER EQUIPMENT TEST SETS	0	0	. 80
547	PERFORM SELF-TESTS OF AN/GSM-145 MAINTENANCE GROUND EQUIPMENT			
	TEST SETS	0	0	80
T32	ISOLATE MALFUNCTIONS IN UNITS OF AN/GSM-139 MAINTENANCE GROUND			
	EQUIPMENT TEST SETS	0	0	80
T33	ISOLATE MALFUNCTIONS IN UNITS OF AN/GSM-145 MAINTENANCE GROUND			
	EQUIPMENT TEST SETS	0	0	80
010	CALIBRATE OR ADJUST AN/GSM-131 POWER EQUIPMENT TEST SETS	0	0	80
U12	CALIBRATE OR ADJUST AN/GSM-136 POWER SUPPLY TEST SETS	0	0	80
U21	CALIBRATE OR ADJUST UNIVAC TYPE 1218 DIGITAL DATA COMPUTERS	0	0	80
S39	PERFORM FUNCTIONAL CHECKS OF RD-368/G ELECTRICAL PROCESSING			
	RECORDER-REPRODUCER FOR W-133B CDB	0	2	70
T13	ISOLATE MALFUNCTIONS IN AN/GSM-136 POWER SUPPLY TEST SETS	0	0	70
NOTE	NOTE: THIS TABLE PRESENTED FOR INFORMATION ONLY.			

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