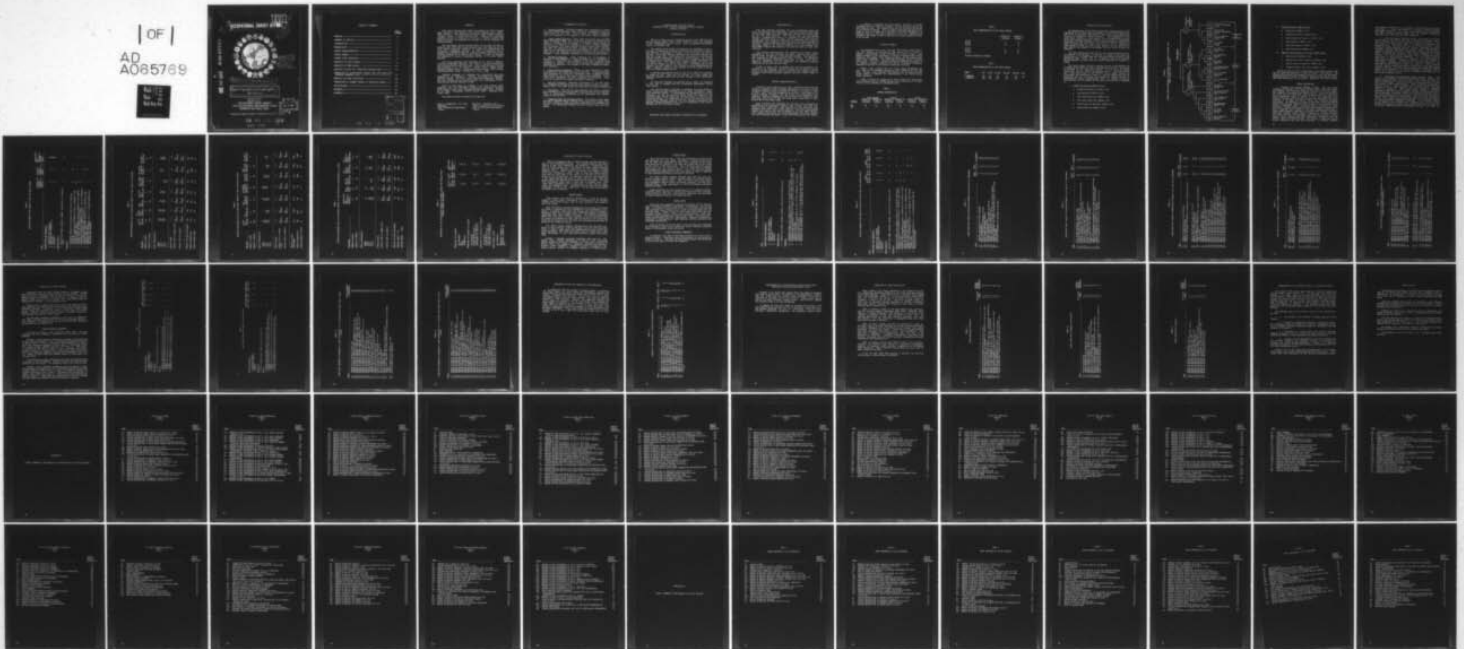


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DEFENSIVE FIRE CONTROL SYSTEMS CAREER LADDER, AFSCS 321X1E/6.(U)
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9 OCCUPATIONAL SURVEY REPORT

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10 Harry G. Lawrence

6 DEFENSIVE FIRE CONTROL SYSTEMS CAREER LADDER
AFSCs 321X1E/G

AFPT 90-323-103
FEBRUARY 1979
OCCUPATIONAL SURVEY BRANCH
USAF OCCUPATIONAL MEASUREMENT CENTER
RANDOLPH AFB TEXAS 78148

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PREFACE

This report presents the results of a detailed Air Force Occupational Survey of the Defensive Fire Control Systems career ladder, AFSC 321X1E/G. This project was directed by USAF Program Technical Training, Volume 2, dated February 1978. Authority for conducting specialty 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 occupational survey program within the Air Force has been in existence since 1956 when initial research was undertaken by the Air Force Human Resources Laboratory to develop the methodology for conducting occupational surveys. By 1967, an operational survey program was established within Air Training Command and surveys were produced annually on 12 enlisted career ladders. In 1972, the program was expanded to produce occupational surveys of 51 career ladders annually.

The survey instrument was developed by Mr. David E. Williams, Inventory Development Specialist. Mr. Harry G. Lawrence analyzed the survey data and 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, Randolph AFB, Texas, 78148.

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 sections, 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), Randolph AFB, Texas, 78148.

This report has been reviewed and is approved.

BILLY C. McMASTER, Col, USAF
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SUMMARY OF RESULTS

1. Survey Coverage: Inventory booklets were administered to Defensive Fire Control Systems (AFSC 321X1E/G) incumbents during the period March to June 1978. Survey results are based on responses from 331 incumbents or 87 percent of the career ladder incumbents.
2. Career Ladder Structure: Three major job groups were identified within the career ladder. Two of these job groups were divided on the basis of shredouts and each group was composed almost entirely of Shredout E or Shredout G incumbents. E and G shredout personnel were performing very similar jobs (on different models of B-52 aircraft, and their job structures for each shredout were similar, differing primarily in equipment maintained and breadth of jobs. The third major group was composed of personnel identified as supervisors or managers. These groupings supported the current specialty structure.
3. Shredout Comparison: Tasks performed by all incumbents in shredout E were compared to tasks performed by all incumbents in shredout G. Differences were primarily in the type of system being maintained or repaired. Also, shredout G personnel averaged 121 tasks performed as compared to an average of 69 tasks performed by Shredout E personnel.
4. Career Ladder Progression: There are clear differences in tasks performed by 5- and 7-skill level DAFSC personnel. In both shredouts, tasks performed by 5-skill level respondents relate to flightline versus shop maintenance and in the type of system being maintained. At the 7-skill level, incumbents were both repairmen and supervisors. Nine-skill level incumbents were almost exclusively managers.
5. AFR 39-1 Evaluation: Specialty descriptions for all skill levels were compared to the survey data and were found to present a comprehensive view of the major duties and tasks with only minor exceptions.
6. STS Review: The STS for each shredout was found to provide good coverage of the tasks performed by the personnel in each shredout. There is considerable overlapping of STS paragraphs and subparagraphs in the two STSs.
7. Comparison With The Previous Survey: The results of this report reflected a somewhat similar pattern to that reported in August 1973. The sharp division in duties and tasks performed by each shredout still existed. The background findings for each shredout were also very similar.

OCCUPATIONAL SURVEY REPORT
DEFENSIVE FIRE CONTROL SYSTEMS CAREER LADDER
(AFSCs 321X1E/G)

INTRODUCTION

This is a report of an occupational survey of the Defensive Fire Control Systems career ladder (AFSC 321X1E/G) which was completed by the Occupational Survey Branch, USAF Occupational Measurement Center, in December 1978.

The present career ladder is divided into two shredouts, E and G. Shredout E personnel are assigned to B-52H units with ASG-21 Turrets, and shredout G personnel to B-52D/G units with MD-9 and ASG-15 Turrets. The 321X1E shredout underwent five successive changes from May 1951 to May 1975. Each change was a reflection of turret and fire control systems modifications and title or AFSC changes. The 321X1G shredout also went through a series of seven changes from March 1954 to October 1976. Each change also reflected changes to turrets and fire control systems, as well as AFSC titles. Throughout all of these changes, the basic tasks of each shredout remained approximately the same: repairing, adjusting, and aligning the various types of Defensive Fire Control Systems (DFCS).

A previous occupational survey of this career ladder was published in August of 1973. Since the 1973 survey, the career ladder has remained relatively stable with no major changes in the classification structure.

An Electronic Principles Occupational Survey report was completed in 1978, and is available from the Occupational Measurement Center upon request.

The current project is intended to reexamine the career ladder in terms of tasks and jobs performed by career ladder respondents. Major areas addressed include: (1) development and administration of the job inventory; (2) the job structure found within the Defensive Fire Control/Systems (DFCS) ladder and how this related to skill level and experience groups; (3) comparisons of the job structure with current career ladder documents such as AFR 39-1 Specialty Descriptions and Specialty Training Standard (STS); and (4) comparison of the current findings with the 1973 survey results.

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METHODOLOGY

The data collection instrument for this occupational survey was USAF Job Inventory AFPT 90-323-103. The task list for the 1973 study of this career ladder (old AFSC 323X0E/G) served as the starting point for the new task inventory. The previous task list was refined through a comprehensive research of publications and directives and through interviews (both in person and by telephone) with training, classification, and assignment personnel and the functional manager at HQ USAF. Personal interviews were conducted with four subject matter specialists (SMSs) at the Technical School at Lowry AFB Colorado, with three SMSs at March AFB California, and with four SMSs at Castle AFB, California.

The tentative inventory was then reviewed by 76 subject matter specialists at 29 bases worldwide and their comments were used to finalize drafts and develop a final inventory booklet. The final inventory consisted of 348 tasks grouped under 11 duties. In addition to the usual personnel information items such as name, rank, AFSC, degree of supervision, and job satisfaction, the inventory requested information on job title and work areas.

Finally to insure that all possible and required information was included in the inventory, a write-in section was provided for incumbents to list any additional tasks not listed plus any comments that the incumbent might think necessary regarding his job or career ladder in general.

SURVEY ADMINISTRATION

During the period March to June 1978, consolidated base personnel offices in operational units worldwide administered the inventory to job incumbents holding a DAFSC of 32131E/G, 32151E/G, 32171E/G, or 32191 or 32192. AFSC 32192 was implemented as an AFSC in the middle of the survey sampling; therefore, the two 9-skill level designations were combined. Members completing the job inventory were required to have held their Duty AFSC at least six weeks and to have been in their present job at least eight weeks.

Each individual who completed the inventory first completed an identification and biographical section, then checked each task performed in their present job. After checking all tasks performed, each incumbent then rated each of these tasks on a nine-point scale showing relative time spent on that task as compared to all other tasks checked. These ratings ranged from one (very-small-amount time spent) through five (about-average time spent) to nine (very-large-amount time spent).

In addition to completing the job inventory, selected 7- or 9-skill incumbents were also asked to complete a second inventory booklet for task difficulty data. This booklet listed only the duty/task list section of the inventory booklets. Each incumbent completing this booklet was asked to rate all of tasks on a nine-point scale from extremely low to extremely high as to the relative difficulty of each task. Difficulty was defined as the length of time it requires an average incumbent to learn to do the task.

SURVEY SAMPLE

All personnel listed in the February 1978 Uniform Airman Report File were selected to participate in this survey so as to insure a balanced representation across MAJCOM and DAFSC groups. The sample consisted of 331 incumbents, of which 69 members were 321X1E personnel, 205 members were 321X1G personnel, and 43 members were 9-skill level incumbents. The remaining percentage failed to indicate their DAFSC. The 69 E-shredout personnel comprised 65 percent of all assigned E-shredout members and the 205 G-shredout incumbents comprised 74 percent of all assigned G-shredout personnel.

Tables 1 and 2 indicate that the survey sample distribution was very close to the assigned manning by major command and by skill level. Overall, these sampling distributions tend to verify that the survey sample is adequate and representative of the overall career ladder population.

Table 3 reflects the proportion of each shredout by Total Active Federal Military Service (TAFMS) groups and is indicative of the relative size of each shredout by enlistment period.

TABLE 1

COMMAND REPRESENTATION

COMMAND	TOTAL SAMPLE		321X1E		321X1G	
	PERCENT OF ASSIGNED	PERCENT OF SAMPLE	PERCENT OF ASSIGNED	PERCENT OF SAMPLE	PERCENT OF ASSIGNED	PERCENT OF SAMPLE
SAC	91	93	90	98	95	96
ATC	9	7	10	2	5	4

TABLE 2

DAFSC REPRESENTATION OF THE SURVEY SAMPLE*

	<u>PERCENT OF ASSIGNED</u>	<u>PERCENT OF SAMPLE</u>
32131E	7	3
32151E	13	14
32171E	8	9
32131G	11	8
32151G	41	34
32171G	20	32

*9-SKILL LEVELS NOT INCLUDED

TABLE 3

TAFMS REPRESENTATION IN THE SURVEY SAMPLE

<u>TAFMS</u>	<u>1-48</u>	<u>49-96</u>	<u>97-144</u>	<u>145-192</u>	<u>193-240</u>	<u>241+</u>
E SHREDOUT	59%	21%	8%	6%	5%	1%
G SHREDOUT	42%	24%	13%	11%	10%	-

CAREER FIELD STRUCTURE

An essential part of the USAF occupational analysis program is the examination of the career ladder personnel in terms of the actual structure of the job functions they perform rather than how the career field structure is outlined in official documents. This examination of the career ladder structure 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 relative time spent on tasks. Background factors such as DAFSC, job title, grade, position, etc. are used only to help describe the members of job groups that the CODAP process has identified.

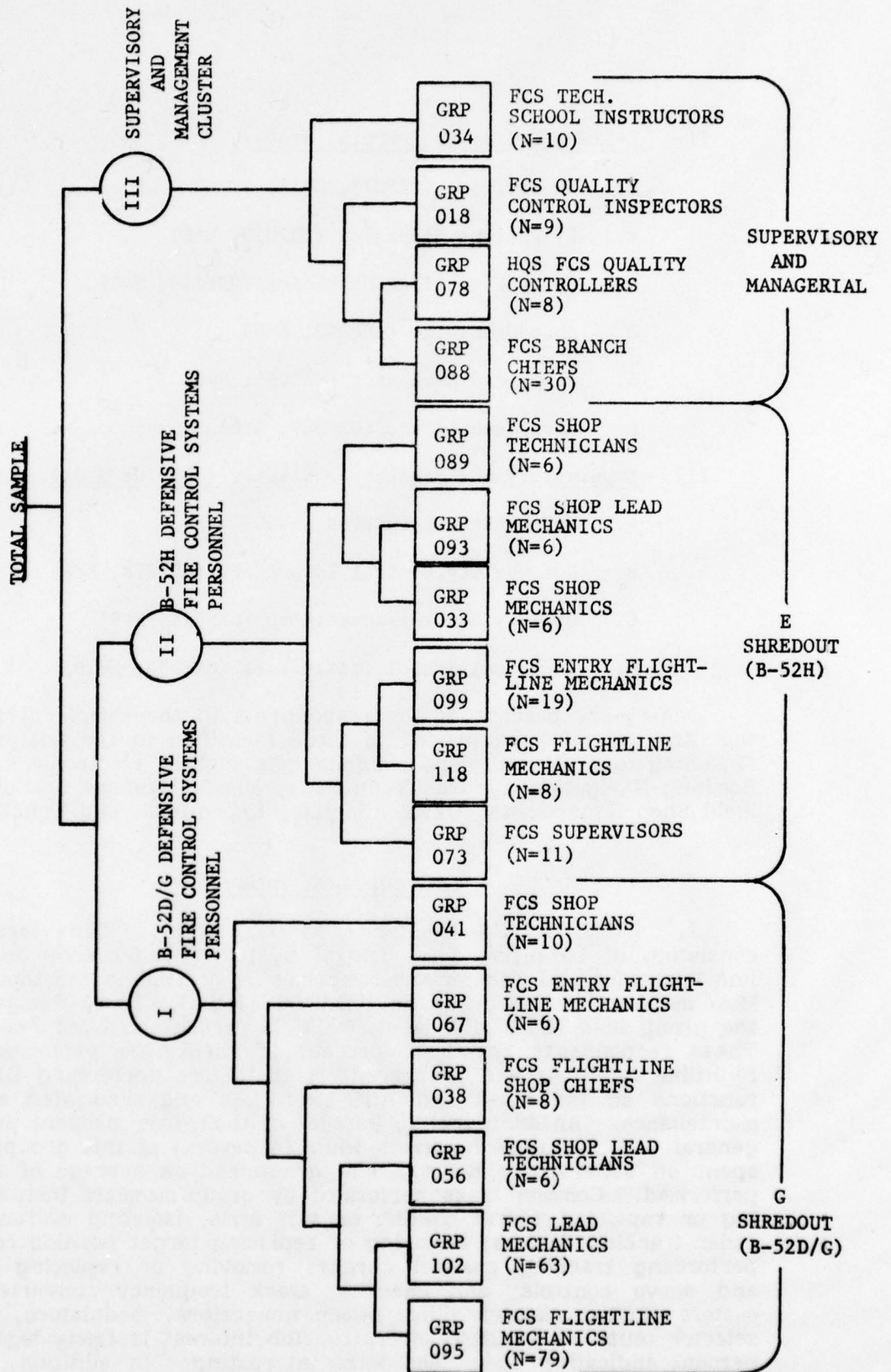
The basic identifying group used in the hierarchical job structuring analysis is the job type. A job type is a group of individuals who perform many of the same tasks and also spend similar amounts of time performing them. When there is a substantial degree of similarity between different job types, they are grouped together and labeled as a cluster.

The career ladder structure analysis consists of determining the functional job structure in terms of job types and clusters. Each group is described by the tasks they perform, the time spent performing these tasks, and any relevant background factors. The three clusters and 16 job types found in the 321X1E/G career ladder analysis are listed below and illustrated in Figure 1. Selected background and job satisfaction data for the groups are displayed in Tables 4 through 8. Representative duties, distinguishing tasks, and common background characteristics for all clusters and job types are presented in Appendix A.

- I. B-52D/G FCS Cluster (GRP008, N=178)
 - A. Flightline Mechanics (GRP095, N=79)
 - B. Lead Mechanics (GRP102, N=63)
 - C. Shop Lead Technicians (GRP056, N=6)
 - D. Line Lead Technicians (GRP038, N=8)
 - E. Entry Flightline Mechanics (GRP067, N=6)
 - F. Shop Technicians (GRP041, N=10)

FIGURE 1

CAREER LADDER STRUCTURE FOR DEFENSIVE FIRE CONTROL SYSTEMS (FCS)
 CAREER LADDER, AFSC 321X1E/G



- II. B-52H FCS Cluster (GRP014, N=60)
 - A. Supervisors (GRP073, N=11)
 - B. Flightline Mechanics (GRP099, N=8)
 - C. Entry Flightline Mechanics (GRP118, N=19)
 - D. Shop Mechanics (GRP033, N=6)
 - E. Shop Lead Mechanics (GRP093, N=6)
 - F. Shop Technicians (GRP089, N=6)

- III. Supervisory and Managerial Cluster (GRP010, N=81)
 - A. Branch Chiefs (GRP088, N=30)
 - B. HQs Quality Control Inspectors (GRP078, N=8)
 - C. Quality Control Inspectors (GRP018, N=9)
 - D. Technical School Instructors (GRP034, N=10)

Ninety-six percent of the respondents in the sample perform jobs that are generally equivalent to those identified in the analysis. The remaining four percent were assigned jobs such as Electronic Mechanics, Bombing-Navigation System Technicians, Missile Systems Branch Chiefs, Field Shop Supervisors, DFCS Analysts, Expeditors, and Truck Drivers.

Group Descriptions

I. B-52D/G FCS Cluster (GRP008, N=178). This large group consisting of Defensive Fire Control System (DFCS) Shop and Flightline Mechanics and Technicians comprises 54 percent of the total sample. Most members of the group hold DAFSC 321X1G. Forty-five percent of the group hold the 5-skill level, while 36 percent hold the 7-skill level. These respondents spend 42 percent of their time performing DFCS flightline functions and 19 percent of their time performing DFCS shop functions on the MD-9 and ASG-15 DFCSs and associated equipment maintenance. An additional 15 percent of their time is spent performing general FCS flightline functions while 14 percent of this groups' time is spent on supervisory tasks. The group had an average of 121 tasks performed. Common tasks performed by group members include removing or replacing turret cowling or side arms; isolating malfunctions in radar tracking devices; removing or replacing target position computers; performing tracking channel checks; removing or replacing antennas and servo controls; and checking track frequency converter transmitters (FCTs), search pulse sweep generators, modulators, and FEO selector units on B-52D/G aircraft. Job interest is fairly high with 65 percent indicating their jobs were interesting. In addition, members

are generally satisfied with the utilization of their talents and training (see Table 5). Fifty-seven percent of the cluster indicated positive reenlistment intentions. The cluster was composed of six subordinate job types dividing primarily along shop vs flightline assignment, experience, and extent of supervision dimensions.

II. B-52H FCS Cluster (GRP014, N=60). This group of 60 incumbents spend 58 percent of their time on flightline maintenance and 13 percent of their time on shop maintenance of the ASG-21 DFCS. Thirteen percent of this groups' time is consumed by supervisory and managerial tasks. The group performed an average of 69 tasks. Tasks performed include servicing hydraulic systems, performing operational checkouts, isolating malfunctions on the ASG-21 DFCS, and removing or replacing frequency converter transmitters, tracking control mechanisms, controlled line platforms, and ballistic computers on B-52H aircraft. This cluster has six job types within it, ranging from DFCS supervisors to entry flightline mechanics. The six groups separated along shop vs flightline functions, experience level, and degrees of supervision parameters. Background information is noted in Table 3. The cluster, composed of a majority of E shredout personnel, had relatively low job satisfaction indices (see Table 5). Only 35 percent find their jobs interesting and only 38 percent find their talents being utilized. However, 64 percent reported that their training was utilized fairly well to perfectly. In terms of reenlistment intentions, only 36 percent of the cluster felt they would or probably would reenlist at the end of their enlistment period.

III. Supervisory and Managerial Cluster (GRP010, N=81). This group of 81 incumbents generally perform supervisory, training, and general managerial tasks, with 95 percent of their time being spent on tasks in these duties. The average grade of this group was E-7, with the average TAFMS being 208 months. Other background information is noted in Table 4. Tasks performed by this group include evaluating maintenance actions and complying with work standards, inspection reports, or procedures. Other tasks included briefing or debriefing personnel, inspecting shop or flightline facilities, demonstrating how to locate information, evaluating training, and conducting training courses. The cluster divided into four job types: FCS Tech School Instructors, Quality Control Inspectors, HQs Quality Control Inspectors, and Branch Chiefs. The quality control groups separated into two groups based on an headquarters/field assignment dichotomy. Job satisfaction indices for this group of senior airmen were uniformly good, with 80 percent feeling their talents and training were utilized fairly well or better, and 62 percent indicating positive reenlistment intentions (see Table 8).

TABLE 4

RELATIVE PERCENT TIME SPENT BY DUTY FOR EACH CLUSTER

DUTY	B-52D/G FCS CLUSTER (SHREDOUT G) (N=178)	B-52H FCS CLUSTER (SHREDOUT E) (N=60)	SUPERVISORY AND MANAGERIAL CLUSTER (N=81)
<u>SUPERVISORY AND MANAGERIAL</u>			
A ORGANIZING AND PLANNING	2	2	11
B DIRECTING AND IMPLEMENTING	7	6	28
C EVALUATING	3	3	28
D TRAINING	2	2	11
<u>ADMINISTRATIVE</u>			
E WORKING WITH FORMS, RECORDS, REPORTS, DIRECTIVES, OR TECHNICAL DATA	9	5	16
<u>TECHNICAL</u>			
F PERFORMING GENERAL FIRE CONTROL SYSTEMS (FCS) FLIGHTLINE FUNCTIONS	15	10	-
G PERFORMING FLIGHTLINE MAINTENANCE ON ASG-21, DEFENSIVE FIRE CONTROL SYSTEMS (DFCS)	42	1	4
H PERFORMING SHOP MAINTENANCE ON ASG-21 DEFENSIVE FIRE CONTROL SYSTEMS (DFCS) AND ASSOCIATED EQUIPMENT	19	-	-
I PERFORMING FLIGHTLINE MAINTENANCE ON ASG-15 OR MD-9 DEFENSIVE FIRE CONTROL SYSTEMS (DFCS) ON B-52D/G	-	58	2
J PERFORMING SHOP MAINTENANCE ON ASG-15, MD-9 DEFENSIVE FIRE CONTROL SYSTEM (DFCS)	-	13	-
K PERFORMING SHOP MAINTENANCE ON M-3 .50 CALIBER MACHINE GUNS AND ASSOCIATED EQUIPMENT	-	-	-

TABLE 5
SELECTED BACKGROUND DATA ON FUNCTIONAL GROUPS IN THE B-52D/G FCS CLUSTER

VARIABLE	B-52D/G FCS CLUSTER	FCS				FCS SHOP LEAD TECHNICIAN	FCS FLIGHT- LINE LEAD TECHNICIAN	FCS ENTRY FLIGHTLINE MECHANIC	FCS SHOP TECHNICIAN
		FLIGHT- LINE MECHANIC	FCS LEAD MECHANIC	FCS SHOP LEAD TECHNICIAN	FCS FLIGHT- LINE LEAD TECHNICIAN				
NUMBER IN GROUP	178	79	63	6	8	6	10		
PERCENT OF SAMPLE	54%	24%	19%	2%	2%	2%	3%		

DAFSC DISTRIBUTION:

OTHER	7%	2%	-	-	-	-	-	-	-
32131	12%	15%	3%	17%	-	83%	10%		
32151	45%	65%	35%	50%	-	17%	30%		
32171	36%	18%	52%	33%	62%	-	60%		
32192	-	-	-	-	38%	-	-		

AVERAGE GRADE	4.2	3.7	4.5	4.0	5.9	3.0	4.8
AVERAGE TIME IN CAREER FIELD	65 MONTHS	42 MONTHS	81 MONTHS	53 MONTHS	143 MONTHS	10 MONTHS	98 MONTHS
AVERAGE TIME IN SERVICE	75 MONTHS	51 MONTHS	91 MONTHS	63 MONTHS	168 MONTHS	13 MONTHS	118 MONTHS

PERCENT IN FIRST ENLISTMENT	46%	63%	29%	50%	12%	100%	30%
PERCENT SUPERVISING	43%	37%	56%	33%	38%	NONE	50%
AVERAGE NUMBER TASKS	121	99	165	110	178	45	57

TABLE 6

SELECTED BACKGROUND DATA ON FUNCTIONAL GROUPS IN THE B-52H FCS CLUSTER

VARIABLE	B-52H FCS CLUSTER	FCS SUPERVISORS	FCS FLIGHTLINE MECHANICS	FCS ENTRY FLIGHTLINE MECHANICS	FCS SHOP MECHANIC	FCS SHOP LEAD MECHANIC	FCS SHOP TECHNICIAN
NUMBER IN GROUP	60	11	8	19	6	6	6
PERCENT OF SAMPLE	18%	3%	2%	6%	2%	2%	-

DAFSC DISTRIBUTION:

OTHER	8%	-	1%	10%	-	-	-
32131	12%	-	11%	16%	10%	-	-
32151	57%	18%	78%	74%	56%	33%	100%
32171	23%	82%	4%	-	24%	67%	-
32192	-	-	-	-	-	-	-

AVERAGE GRADE	4.1	5.1	4.0	3.5	3.5	5.8	4.0
AVERAGE TIME IN CAREER FIELD	47 MONTHS	89 MONTHS	42 MONTHS	28 MONTHS	19 MONTHS	94 MONTHS	33 MONTHS
AVERAGE TIME IN SERVICE	61 MONTHS	120 MONTHS	49 MONTHS	30 MONTHS	30 MONTHS	139 MONTHS	38 MONTHS

PERCENT IN FIRST ENLISTMENT	63%	NONE	87%	95%	83%	NONE	100%
PERCENT SUPERVISING	30%	100%	13%	4%	NONE	83%	NONE
AVERAGE NUMBER OF TASKS	69	106	63	47	31	128	82

TABLE 7

SELECTED BACKGROUND DATA ON FUNCTIONAL GROUPS IN THE SUPERVISORY AND MANAGERIAL CLUSTER

VARIABLES	SUPERVISORY AND MANAGERIAL CLUSTER		FCS BRANCH CHIEF		HQ'S FCS QUALITY CONTROLLER		FCS QUALITY CONTROL INSPECTORS		FCS TECHNICAL SCHOOL INSTRUCTORS	
	NUMBER IN GROUP	PERCENT OF SAMPLE	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
	81		30	9%	8	2%	9	3%	10	3%
		24%								

DAFSC DISTRIBUTION:

OTHER	2%	4%	-	11%	-
32131	-	-	-	-	-
32151	14%	-	-	11%	80%
32171	37%	13%	100%	78%	20%
32192	47%	83%	-	-	-

AVERAGE GRADE	6.7	6.2	6.2	5.7	4.8
AVERAGE TIME IN CAREER FIELD	184 MONTHS	227 MONTHS	148 MONTHS	137 MONTHS	85 MONTHS
AVERAGE TIME IN SERVICE	208 MONTHS	260 MONTHS	183 MONTHS	156 MONTHS	96 MONTHS
PERCENT IN FIRST ENLISTMENT	1%	NONE	NONE	NONE	NONE
PERCENT SUPERVISING	64%	100%	38%	NONE	10%
AVERAGE NUMBER OF TASKS	49	79	37	19	28

TABLE 8

COMPARISON OF JOB SATISFACTION INDICES BY CAREER LADDER FUNCTIONAL GROUPS
(PERCENT MEMBERS RESPONDING)

	B-52D/G FCS CLUSTER (N=178)	B-52H FCS CLUSTER (N=60)	SUPERVISORY AND MANAGERIAL (N=81)
EXPRESSED JOB INTEREST:			
NOT REPORTED	1	2	3
DULL	13	33	10
SO-SO	21	30	7
INTERESTING	65	35	80
EXPRESSED UTILIZATION OF TALENTS:			
NOT REPORTED	1	-	2
LITTLE OR NOT AT ALL	20	62	15
FAIRLY WELL TO VERY WELL	71	33	67
EXCELLENTLY OR PERFECTLY	8	5	16
EXPRESSED UTILIZATION OF TRAINING:			
NOT REPORTED	1	1	2
LITTLE OR NOT AT ALL	16	35	15
FAIRLY WELL TO VERY WELL	75	54	66
EXCELLENTLY TO PERFECTLY	8	10	17
REENLISTMENT INTENT:			
NOT REPORTED	1	3	3
NO	17	48	21
UNCERTAIN, PROBABLY NO	23	13	14
UNCERTAIN, PROBABLY YES	26	13	21
YES	31	23	41

ANALYSIS OF DAFSC GROUPS

Task and background data of DAFSC groups are also examined as part of each occupational analysis. This analysis allows for the identification of skill level differences and similarities. Furthermore, this data by DAFSC groups aid in the analysis of career ladder documents such as AFR 39-1 Specialty Descriptions and the Specialty Training Standard (STS). Table 9 reflects the percent time spent on duties across each shredout as a whole. Table 10 shows the relative percent time spent by skill level groups within each shredout on the various duties in the job inventory. As expected, there are clear differences in the relative percent time spent on duties by the 5- and 7-skill level groups within each shredout and between the two shredouts. Five-skill level respondents spend most of their time on technical tasks, while 7-skill level respondents tend to spend more of their time on supervisory and managerial tasks. Administrative tasks also consume larger percentages of time at the 7-skill level. The increase is particularly noticeable in the G shredout.

DAFSC 321X1E

This shredout was moderately homogeneous in terms of jobs performed by career ladder respondents. As discussed in the CAREER LADDER STRUCTURE section, most of these personnel were found in the B-52H cluster.

Each skill level is relatively homogeneous in that many of the tasks (as shown in Appendix B) are performed by large percentages of personnel. In general, these skill level groups were found to perform a moderately large core of common tasks, with the proportion of members performing other tasks falling off slowly. This relative homogeneity within each skill level is further illustrated in that 14 percent of the 331 tasks are performed by more than 50 percent of the 5-skill level group and 26 percent of the 331 tasks were performed by more than 50 percent of the 7-skill level group.

The DAFSC 321X1E members indicated their time was spent primarily on tasks relating to ASG-21 and MD-61 guns on B-52H aircraft. Table 11 reflects tasks which best differentiate between 32151E and 32171E personnel. The 7-skill level differs from the 5-skill level in that larger percentages of the 7-skill level personnel perform supervisory tasks.

Overall, E shredout personnel performed tasks such as: completing forms; isolating malfunctions on ASG-21 DFCS; performing ASG-21 hydraulic servicing; performing fast operational checkouts of ASG-21 DFCS; and removing or replacing controlled line platforms, tracking control assemblies, frequency converter transmitters, frequency selector controls, and ballistic computers on B-52H aircraft.

DAFSC 321X1G

The G shredout was only a little less homogeneous in terms of the jobs performed by career ladder respondents. Twenty-six percent of the 331 tasks were performed by more than 50 percent of the 5-skill level group and 33 percent of the tasks were performed by 50 percent or more of the 7-skill level group. The G shredout skill level groups had a large core of common tasks with the proportions of members performing other tasks dropping slowly. Each of the skill level groups is also relatively homogeneous in that many tasks (as shown in Appendix B) were performed by large percentages of personnel.

The DAFSC 321X1G members indicated their time was spent primarily on tasks relating to ASG-15 and MD-9 DFCS on B-52D/G aircraft on the flightline and in shop. Table 12 reflects those tasks which best distinguish between 32151G and 32171G personnel. As with the E shredout group, larger percentages of 7-skill level members performed supervisory tasks.

Tasks performed by large proportions of the G shredout include: completing forms; removing or replacing electrical connectors, antennas, turret cowling or side arms, target position computers; and performing as Flight Evaluation Operator on B-52D/G aircraft.

DAFSC 32192

Nine-skill level respondents indicated the majority of their time was spent performing managerial, supervisory, administrative, and training tasks. In contrast to the DAFSC 32171E or G shredout personnel who still performed many technical tasks, 9-skill levels performed very few technical tasks. Tables 13 and 14 reflect those tasks which best differentiate between 32171E, 32171G, and 32192 personnel. Tasks performed by large proportions of 9-skill levels include: correlating maintenance requirements with other organizations; drafting correspondence; conducting or participating in staff meetings; briefing personnel; and counseling subordinates.

Only 19 percent of the 331 tasks in the inventory were performed by 50 percent or more of the 9-skill level group, reflecting a moderate amount of heterogeneity within this group.

E and G Shredout Comparison

A comparison was made of the tasks performed by overall E and G shredout groups. Tasks most highly differentiating the two groups are shown in Table 15. Generally the tasks differentiating reflected models of aircraft and types of turrets and equipment.

TABLE 9

RELATIVE PERCENT TIME SPENT ON DUTIES BY SHREDOUT GROUPS

DUTY	321X1E	321X1G
<u>SUPERVISORY AND MANAGERIAL</u>		
A ORGANIZING AND PLANNING	3	2
B DIRECTING AND IMPLEMENTING	10	9
C EVALUATING	7	6
D TRAINING	6	3
<u>ADMINISTRATIVE</u>		
E WORKING WITH FORMS, RECORDS, REPORTS, DIRECTIVES OR TECHNICAL DATA	12	8
<u>TECHNICAL</u>		
F PERFORMING GENERAL FIRE CONTROL SYSTEMS (FCS) FLIGHTLINE FUNCTIONS	13	9
G PERFORMING FLIGHTLINE MAINTENANCE ON ASG-21, DEFENSIVE FIRE CONTROL SYSTEMS (DFCS)	33	1
H PERFORMING SHOP MAINTENANCE ON ASG-21 DEFENSIVE FIRE CONTROL SYSTEMS (DFCS) AND ASSOCIATED EQUIPMENT	15	-
I PERFORMING FLIGHTLINE MAINTENANCE ON ASG-15 OR MD-9 DEFENSIVE FIRE CONTROL SYSTEMS (DFCS) ON B-52D/G	1	48
J PERFORMING SHOP MAINTENANCE ON ASG-15, MD-9 DEFENSIVE FIRE CONTROL SYSTEM (DFCS)	-	11
K PERFORMING SHOP MAINTENANCE ON M-3 .50 CALIBER MACHINE GUNS AND ASSOCIATED EQUIPMENT	-	3

TABLE 10

RELATIVE PERCENT TIME SPENT ON DUTIES BY 321X1E AND 321X1G DAFSC GROUPS

DUTY	DAFSC 32151E (N=38)		DAFSC 32171E (N=24)		DAFSC 32151G (N=93)		DAFSC 32171G (N=88)		DAFSC 32192 (N=43)	
<u>SUPERVISORY AND MANAGERIAL</u>										
A ORGANIZING AND PLANNING	2	5	2	4	14					
B DIRECTING AND IMPLEMENTING	7	17	5	16	33					
C EVALUATING	2	17	2	12	28					
D TRAINING	4	11	3	5	6					
<u>ADMINISTRATIVE</u>										
E WORKING WITH FORMS, RECORDS, REPORTS, DIRECTIVES OR TECHNICAL DATA	11	13	5	11	14					
<u>TECHNICAL</u>										
F PERFORMING GENERAL FIRE CONTROL SYSTEMS (FCS) FLIGHTLINE FUNCTIONS	15	9	11	8	3					
G PERFORMING FLIGHTLINE MAINTENANCE ON ASG-21, DEFENSIVE FIRE CONTROL SYSTEMS (DFCS)	41	18	1	-	-					
H PERFORMING SHOP MAINTENANCE ON ASG-21 DEFENSIVE FIRE CONTROL SYSTEMS (DFCS) AND ASSOCIATED EQUIPMENT	18	8	1	-	-					
I PERFORMING FLIGHTLINE MAINTENANCE ON ASG-15 OR MD-9 DEFENSIVE FIRE CONTROL SYSTEMS (DFCS) ON B-52D/G	-	1	58	31	2					
J PERFORMING SHOP MAINTENANCE ON ASG-15, MD-9 DEFENSIVE FIRE CONTROL SYSTEMS (DFCS)	-	1	10	11	-					
K PERFORMING SHOP MAINTENANCE ON M-3 .50 CALIBER MACHINE GUNS AND ASSOCIATED EQUIPMENT	-	-	3	2	-					

TABLE 11

TASKS WHICH MOST CLEARLY DISTINGUISH BETWEEN 32151E AND 32171E PERSONNEL

TASK	DAFSC		DIFFERENCE
	32151E	32171E	
C5	10	79	-69
B12	5	67	-62
C4	10	71	-61
C22	13	71	-58
D12	18	75	-57
C10	16	71	-55
C18	18	71	-53
B4	24	75	-51
B32	16	67	-51
B1	32	79	-47
C7	8	54	-46

TABLE 12

TASKS WHICH MOST CLEARLY DISTINGUISH BETWEEN 32151G AND 32171G PERSONNEL

TASK	DAFSC 32151G	DAFSC 32171G	DIFFERENCE
C22	20	79	-59
C4	12	68	-56
B33	21	70	-49
C10	10	58	-48
C18	11	58	-47
A10	27	69	-42
B5	20	62	-42
C5	17	59	-42
D2	21	62	-41
B3	26	64	-38
B4	35	72	-37
B17	10	45	-35
B10	12	47	-35

TABLE 13

TASKS WHICH MOST CLEARLY DIFFERENTIATE BETWEEN 32171E AND 32192 PERSONNEL

TASK	DAFSC 32171E	DAFSC 32192	DIFFERENCE
B2 CONDUCT OR PARTICIPATE IN STAFF MEETINGS	25	91	-66
A15 SCHEDULE LEAVES OR PASSES	21	84	-63
C6 EVALUATE INDIVIDUALS FOR DEMOTION, PROMOTION, OR RECLASSIFICATION	17	79	-62
G2 ISOLATE MALFUNCTIONS ON ASG-21 FCS TO LRUs	62	2	+60
G5 PERFORM ASG-21 PHASE INSPECTIONS	58	-	+58
G1 ARM OR DISARM M-61 GUNS ON B-52H	62	5	+58
B29 SUPERVISE APPRENTICE DEFENSIVE FIRE CONTROL SYSTEMS MECHANICS (AFSC 32130E)	71	14	+57
G4 PERFORM ASG-21 HYDRAULIC SERVICING	58	2	+56
G6 PERFORM FAST-OPERATIONAL CHECKOUTS OF ASG-21 DFCS	58	2	+56
G9 PERFORM PNEUMATIC SYSTEM LEAK CHECKS ON B-52H	58	2	+56
G10 PREPARE FOR INFLIGHT FIRING ON B-52H	58	2	+56
G15 REMOVE OR REPLACE ANTENNAS ON B-52H	58	2	+56
G16 REMOVE OR REPLACE BALLISTIC COMPUTERS ON B-52H	58	2	+56
G18 REMOVE OR REPLACE CONTROL INDICATORS ON B-52H	58	2	+56
G19 REMOVE OR REPLACE CONTROLLED LINE PLATFORMS (CLP) ON B-52H	58	2	+56
G20 REMOVE OR REPLACE ELECTRONIC POWER SUPPLIES ON B-52H	58	2	+56
G23 REMOVE OR REPLACE FREQUENCY CONVERTER TRANSMITTERS (FCT) ON B-52H	58	2	+56
G24 REMOVE OR REPLACE FREQUENCY SELECTOR CONTROLS (FSC) ON B-52H	58	2	+56
G28 REMOVE OR REPLACE GUN DRIVE MOTORS ON B-52H	58	2	+56
G36 REMOVE OR REPLACE PRESSURIZATION PACKAGES ON B-52H	58	2	+56
G44 REMOVE OR REPLACE WAVE GUIDE ASSEMBLIES ON B-52H	58	2	+56

TABLE 14

TASKS WHICH MOST CLEARLY DIFFERENTIATE BETWEEN 32171G AND 32192 PERSONNEL

TASK	DAFSC		DIFFERENCE
	32171G	32192	
A15	17	84	-87
B2	31	91	-60
A1	27	86	-59
C20	27	86	-59
I17	65	5	+60
I11	65	7	+58
I4	65	7	+58
I8	65	7	+58
I12	65	7	+58
I15	65	7	+58
I28	52	5	+57
I2	64	7	+57
I3	64	7	+57
I5	64	7	+57
I6	64	7	+57
I7	64	7	+57

SCHEDULE LEAVES OR PASSES

CONDUCT OR PARTICIPATE IN STAFF MEETINGS

ASSIGN PERSONNEL TO DUTY POSITIONS

RECOMMEND PERSONNEL FOR AWARDS

REMOVE OR REPLACE TURRET COWLING OR SIDE ARMS ON B-52D/G

ISOLATE MALFUNCTIONS IN ACQUISITION MODE ON B-52D/G

ISOLATE MALFUNCTIONS IN HYDRAULIC DRIVE SYSTEM ON B-52D/G

ISOLATE MALFUNCTIONS IN MANUAL TRACKING MODE ON B-52D/G

ISOLATE MALFUNCTIONS IN SEARCH MODE ON B-52D/G

ISOLATE MALFUNCTIONS IN TRACK RADAR TRACKING CHANNELS ON B-52D/G

PERFORM TRACKING CHANNELS (LOCK-ON) CHECKS OR ADJUSTMENTS ON B-52D/G

ISOLATE MALFUNCTIONS IN EMERGENCY MODE ON B-52D/G

ISOLATE MALFUNCTIONS IN EMERGENCY SEARCH MODE ON B-52D/G

ISOLATE MALFUNCTIONS IN INDICATING LOOPS ON B-52D/G

ISOLATE MALFUNCTIONS IN IN-LIMITS MODE ON B-52D/G

ISOLATE MALFUNCTIONS IN ON MODE ON B-52D/G

TABLE 15

TASKS SHOWING GREATEST DIFFERENCES BETWEEN SHREDDOUT E AND G
(PERCENT MEMBERS PERFORMING)

TASK	321X1E	321X1G	DIFFERENCE
G16	74	1	+73
G18	74	1	+73
G19	73	-	+73
G24	73	-	+73
G15	73	1	+72
G23	73	1	+72
G41	73	1	+72
G39	71	-	+71
G4	73	2	+71
G6	73	2	+71
I7	1	74	-73
I8	1	74	-73
I13	1	74	-73
I19	1	74	-73
I15	1	74	-73
I33	1	74	-73
I23	3	76	-73
I28	1	75	-74
I22	3	77	-74
I77	1	77	-76

ANALYSIS OF AFMS GROUPS

Comparisons were also made between groups of personnel on the basis of years of total active federal military service (TAFMS). TAFMS groups are used to highlight tasks and jobs performed as a function of different levels of experience in the career field. In addition, the 1-48 months TAFMS group is used to identify those tasks which should be considered for coverage in initial training courses.

Tables 16 and 17 reflect the relative percent time spent on the 11 duty categories by personnel within each AFMS group for each of the shredouts surveyed. In general, the job differences between AFMS groups within each shredout are similar to those noted for DAFSC groups. However, the job differences between enlistment groups are more moderate than between DAFSC groups.

Job time spent performing managerial, supervisory, or administrative duties increases progressively in advanced enlistment groups in both shredouts. Conversely, time spent in technical tasks decreases progressively across AFMS groups.

First Enlistment Incumbents

Of particular interest is the 1-48 months AFMS group. The jobs performed by first enlistment incumbents form the basis for initial training.

Generally, first-enlistment personnel in shredout E spend the bulk of their time (81 percent) in Duty G, Performing Flightline Maintenance on ASG-21 DFCS; in Duty H, Performing Shop Maintenance on ASG-21 DFCS and Associated Equipment; and in Duty F, Performing General Fire Control Systems Flightline functions (See Table 16). Additionally, 11 percent of their time is spent in Duty E, Working with Forms, Records, Reports, or Technical Data. The specific tasks performed in Duty E are comprised primarily of maintenance management tasks such as: filling out work orders and posting entries on maintenance data collection forms.

This group had a fairly broad job as 44 tasks were performed by 50 percent or more incumbents. Table 18 presents representative tasks performed by this group. All personnel worked on B-52H aircraft.

Shredout G first enlistment incumbents spend the majority of their technical time (86 percent) in Duty I, Performing Flightline Maintenance on the ASG-15 or MD-9 DFCS; in Duty F, Performing General FCS Flightline Functions; and in Duty J, Performing Shop Maintenance on ASG-15, MD-9 DFCS (See Table 17). Other typical tasks performed are listed in Table 19. These tasks are performed on B-52D and G models and many tasks were related to radar and associated equipment.

TABLE 16

RELATIVE PERCENT TIME SPENT ON DUTIES BY 321XIE TAFMS GROUPS

	MONTHS ACTIVE FEDERAL MILITARY SERVICE				
	1-48 (N=36)	49-96 (N=14)	97-144 (N=8)	145-192 (N=5)	193-240 (N=6)
<u>SUPERVISORY OR MANAGERIAL</u>					
A ORGANIZING AND PLANNING	1	5	4	4	7
B DIRECTING AND IMPLEMENTING	3	16	16	16	22
C EVALUATING	1	6	13	26	19
D TRAINING	2	14	9	15	6
<u>ADMINISTRATIVE</u>					
E WORKING WITH FORMS, RECORDS, REPORTS, DIRECTIVES, OR TECHNICAL DATA	11	9	13	13	21
<u>TECHNICAL</u>					
F PERFORMING GENERAL FIRE CONTROL SYSTEMS (FCS) FLIGHTLINE FUNCTIONS	15	13	9	10	4
G PERFORMING FLIGHTLINE MAINTENANCE ON ASG-21, DEFENSIVE FIRE CONTROL SYSTEMS (DFCS)	45	24	25	15	11
H PERFORMING SHOP MAINTENANCE ON ASG-21 DEFENSIVE FIRE CONTROL SYSTEMS (DFCS) AND ASSOCIATED EQUIPMENT	21	13	8	1	10
I PERFORMING FLIGHTLINE MAINTENANCE ON ASG-15 OR MD-9 DEFENSIVE FIRE CONTROL SYSTEMS (DFCS) ON B-52D/G	1	-	2	-	-
J PERFORMING SHOP MAINTENANCE ON ASG-15, MD-9 DEFENSIVE FIRE CONTROL SYSTEM (DFCS)	-	-	1	-	-
K PERFORMING SHOP MAINTENANCE ON M-3 .50 CALIBER MACHINE GUNS AND ASSOCIATED EQUIPMENT	-	-	-	-	-

TABLE 17

RELATIVE PERCENT TIME SPENT ON DUTIES BY 321X1G TAFMS GROUPS

	MONTHS ACTIVE				FEDERAL MILITARY SERVICE
	1-48 (N=82)	49-96 (N=34)	97-144 (N=24)	145-192 (N=23)	
<u>SUPERVISORY OR MANAGERIAL</u>					
A ORGANIZING AND PLANNING	1	3	3	4	5
B DIRECTING AND IMPLEMENTING	3	9	14	14	21
C EVALUATING	1	4	10	15	19
D TRAINING	-	5	5	5	7
<u>ADMINISTRATIVE</u>					
E WORKING WITH FORMS, RECORDS, REPORTS, DIRECTIVES OR TECHNICAL DATA	10	10	8	8	7
<u>TECHNICAL</u>					
F PERFORMING GENERAL FIRE CONTROL SYSTEMS (FCS) FLIGHTLINE FUNCTIONS	10	10	8	8	7
G PERFORMING FLIGHTLINE MAINTENANCE ON ASG-21, DEFENSIVE FIRE CONTROL SYSTEMS (DFCS)	2	-	-	-	-
H PERFORMING SHOP MAINTENANCE ON ASG-21 DEFENSIVE FIRE CONTROL SYSTEMS (DFCS) AND ASSOCIATED EQUIPMENT	-	-	-	-	-
I PERFORMING FLIGHTLINE MAINTENANCE ON ASG-15 OR MD-9 DEFENSIVE FIRE CONTROL SYSTEMS (DFCS) ON B-52D/G	67	47	35	28	19
J PERFORMING SHOP MAINTENANCE ON ASG-15, MD-9 DEFENSIVE FIRE CONTROL SYSTEM (DFCS)	9	11	12	11	7
K PERFORMING SHOP MAINTENANCE ON M-3 .50 CALIBER MACHINE GUNS AND ASSOCIATED EQUIPMENT	3	3	2	5	-

TABLE 18

TASKS MOST FREQUENTLY PERFORMED BY LARGE PERCENTAGES OF 1-48 MONTHS AFMS GROUP (AFSC 321X1E)
(N=36)

TASKS	PERCENT MEMBERS PERFORMING
G4	86
G19	86
G41	86
G23	86
G24	86
G16	86
G39	86
G15	86
F13	86
G18	86
G2	83
G6	83
F15	83
G5	81
G27	78
G1	78
F1	78
F2	78
G36	75
F3	75
G21	75
F10	75

PERFORM ASG-21 HYDRAULIC SERVICING
 REMOVE OR REPLACE CONTROLLED LINE PLATFORMS (CLP) ON B-52H
 REMOVE OR REPLACE TRACKING CONTROL ASSEMBLIES (TCA) ON B-52H
 REMOVE OR REPLACE FREQUENCY CONVERTER TRANSMITTERS (FCT) ON B-52H
 REMOVE OR REPLACE FREQUENCY SELECTOR CONTROLS (FSC) ON B-52H
 REMOVE OR REPLACE BALLISTIC COMPUTERS ON B-52H
 REMOVE OR REPLACE SYSTEM CONTROL ASSEMBLIES (SCA) ON B-52H
 REMOVE OR REPLACE ANTENNAS ON B-52H
 REMOVE, REPLACE OR SPLICE FCS ELECTRICAL WIRING
 REMOVE OR REPLACE CONTROL INDICATORS ON B-52H
 ISOLATE MALFUNCTIONS ON ASG-21 FCS TO LRUs
 PERFORM FAST-OPERATIONAL CHECKOUTS OF ASG-21 DFCS
 REMOVE, REPLACE OR SPLICE FCS ELECTRICAL WIRING
 PERFORM ASG-21 PHASE INSPECTIONS
 REMOVE OR REPLACE GUN COVER BOOTS ON B-52H
 ARM OR DISARM M-61 GUNS ON B-52H
 ARM OR DISARM DFCS WEAPONS
 BRIEF OR DEBRIEF CREWS
 REMOVE OR REPLACE PRESSURIZATION PACKAGES ON B-52H
 CONDUCT DFCS CHECKOUTS FOR AIRCRAFT READINESS IN ACCORDANCE WITH AIRCRAFT
 FORMS
 REMOVE OR REPLACE FCS CONTROLS ON B-52H
 LACE ELECTRICAL WIRING ASSEMBLIES

TABLE 19

TASKS MOST FREQUENTLY PERFORMED BY LARGE PERCENTAGES OF 1-48 MONTHS AFMS GROUP (AFSC 321X1G)
(N=82)

TASKS	PERCENT MEMBERS PERFORMING
I77 REMOVE OR REPLACE TURRET COWLING OR SIDE ARMS ON B-52D/G	91
I33 REMOVE OR REPLACE ANTENNAS ON B-52D/G	91
I73 REMOVE OR REPLACE TARGET POSITION COMPUTERS ON B-52D/G	91
I68 REMOVE OR REPLACE SEARCH PULSE SWEEP GENERATORS (PSG) ON B-52D/G	90
I59 REMOVE OR REPLACE MODULATORS ON B-52D/G	90
I27 PERFORM PRE-FLIGHT OR POST-FLIGHT INSPECTIONS ON B-52D/G	90
I67 REMOVE OR REPLACE SEARCH FREQUENCY CONVERTER TRANSMITTERS ON B-52D/G	90
I38 REMOVE OR REPLACE AUXILIARY POWER SUPPLIES ON B-52D/G	89
I69 REMOVE OR REPLACE SERVO CENTRALS ON B-52D/G	89
I78 REMOVE OR REPLACE .50 CALIBER M-3 GUNS ON B-52D/G	89
I18 PERFORM AMMUNITION DEARMING OR UNLOADING PROCEDURES ON B-52D/G	89
I44 REMOVE OR REPLACE CONTROL HANDLES ON B-52D/G	89
I26 PERFORM PHASE INSPECTIONS ON B-52D/G	89
I66 REMOVE OR REPLACE RADAR WAVE GUIDES ON B-52D/G	89
I31 REMOVE OR REPLACE AMMUNITION BOOSTERS ON B-52D/G	88
I34 REMOVE OR REPLACE AUXILIARY CENTRALS ON B-52D/G	88
I48 REMOVE OR REPLACE FEO ON B-52D/G	88
I74 REMOVE OR REPLACE TRACK FCTs ON B-52D/G	88
I19 PERFORM AMMUNITION LOADING OR ARMING PROCEDURES ON B-52D/G	88
F1 ARM OR DISARM DFCS WEAPONS	88
I23 PERFORM FCS FEO CHECKOUTS ON B-52D/G	88
I37 REMOVE OR REPLACE COMPRESSORS ON B-52D/G	88
I32 REMOVE OR REPLACE AMMUNITION CHUTES ON B-52D/G	88
I12 ISOLATE MALFUNCTIONS IN SEARCH MODE ON B-52D/G	88
I34 REMOVE OR REPLACE AUXILIARY CENTRALS ON B-52D/G	88

ANALYSIS OF AFR 39-1 SPECIALTY DESCRIPTIONS

In conjunction with the analysis of DAFSC groups, a comparison was made between the DAFSC group job descriptions compiled from survey data and the specialty descriptions from AFR 39-1 for all 321X1 DAFSC's, including both shredouts. Overall, the AFR 39-1 specialty descriptions appear to provide good coverage of the tasks performed by personnel in both shredouts. However, the comparison indicated that certain tasks not included in the 39-1 descriptions were performed by large numbers of personnel in each shredout at the 5- and 7-skill level. These tasks are listed in Table 20. It may be noted that these tasks pertain to ammunition loading and unloading, hydraulic mechanisms, and pneumatic mechanisms. These tasks should be considered for possible inclusion in the 5- and 7-skill level descriptions when they are next revised.

TABLE 20

TASKS NOT LISTED IN AFR 39-1 SPECIALTY DESCRIPTION

TASK	32151E	32151G	32171E	32171G
G24 REMOVE OR REPLACE FREQUENCY SELECTOR CONTROLS (FSC) ON B-52H	84	3	58	-
G9 PERFORM PNEUMATIC SYSTEM LEAK CHECKS ON B-52H	55	2	58	0
G30 REMOVE OR REPLACE HYDRAULIC SHUTOFF VALVES ON B-52H	68	2	54	0
G35 REMOVE OR REPLACE MAIN HYDRAULIC SHUTOFF VALVES ON B-52H	45	2	33	0
G42 REMOVE OR REPLACE TURRET HYDRAULIC DRIVE MOTORS ON B-52H	45	2	21	0
I4 ISOLATE MALFUNCTIONS IN HYDRAULIC DRIVE SYSTEM ON B-52D/G	3	82	4	65
I9 ISOLATE MALFUNCTIONS IN PNEUMATIC SYSTEMS ON B-52D/G	0	81	8	64
I18 PERFORM AMMUNITION DEARMING OR UNLOADING PROCEDURES ON B-52D/G	0	83	8	61
I19 PERFORM AMMUNITION LOADING OR ARMING PROCEDURES ON B-52D/G	0	82	4	60
I51 REMOVE OR REPLACE HYDRAULIC BYPASS VALVES ON B-52D/G	0	82	4	59
I52 REMOVE OR REPLACE HYDRAULIC PUMPS ON B-52D/G	0	78	4	59
I61 REMOVE OR REPLACE PNEUMATIC COMPONENTS (EXCLUDING COMPRESSORS) ON B-52D/G	0	78	8	57

COMPARISON OF OCCUPATIONAL SURVEY DATA WITH
SPECIALTY TRAINING STANDARD (STS)

Reviews of the 321X1E and 321X1G STS's were made by comparing STS items to survey data. The purpose of this comparison is to determine how closely each STS reflects tasks performed in the field as expressed by responses the the job inventory. Subject matter specialists at the Lowry Technical Training Center, Lowry AFB CO, matched the inventory tasks to the STS paragraphs.

In general the two STSs appear to provide good coverage of the tasks performed by personnel in the two shredouts. Many tasks overlap between shredouts "E" and "G", particularly in the Electronic Principles, Maintenance Management, and Inspection Systems areas.

ANALYSIS OF TASK DIFFICULTY

From a listing of the airmen identified for the 321X1E/G job survey, experienced personnel primarily at the 7-skill level were selected to rate task difficulty. Tasks were rated on a nine-point scale ranging from very-much-below average (1) to very-much-above average difficulty (9). Difficulty was defined as the length of time it takes an incumbent to learn to do the task. Interrater agreement among the raters was .93 (assessed through components of variance of standardized group means). Ratings were adjusted so that tasks of average difficulty have a rating of 5.00.

Table 21 reflects a sample of the most difficult tasks performed, with the percent members performing these tasks. Generally, tasks relating to isolating malfunctions and checkouts on any of the DFCS, removing or replacing turrets, shop maintenance of any DFCS, and isolating malfunctions on radar and electronic equipment, were rated most difficult. Very few supervisory or managerial tasks were rated much above average in difficulty.

Tasks of about average difficulty are presented in Table 22. Generally, tasks of average difficulty were related to shop maintenance on certain assemblies such as the MD-9 control columns, track control assemblies, and MD-9 gun charges. Other tasks of average difficulty were fast operational checkouts of DFCSs, and boresighting. Some supervisory, managerial or administrative tasks were also in the mid-range of difficulty: counselling subordinates, improving work methods, developing technical course materials, establishing personnel requirements and conducting OJT.

Table 23 reflects the ten least difficult tasks in the inventory. Generally, less difficult tasks related to maintenance management, removing or replacing certain electrical components and performing phase inspections. Many technical training tasks were also rated as below average in difficulty.

In all, 163 were rated above average in difficulty and 164 were rated average or below average in difficulty.

TABLE 21
TASKS RATED MOST DIFFICULT

TASK	DIFFICULTY INDEX	PERCENT MEMBERS PERFORMING
J32 PERFORM IN-SHOP MAINTENANCE ON FEOS ON ASG-15, MD-9	8.1	20
G7 PERFORM MODE-CONTROL UNIT OR PERFORMANCE-SET CHECKOUTS OF THE ASG-21 DFCS	7.9	4
I76 REMOVE OR REPLACE TURRETS ON B-52D/G	7.8	47
H16 ISOLATE MALFUNCTIONS ON MODE CONTROL TEST SETS TO REPLACEABLE SUBASSEMBLIES	7.6	3
H40 PERFORM IN-SHOP MAINTENANCE ON ASG-21 TEST SET SUBASSEMBLIES	7.5	6
H39 PERFORM IN-SHOP MAINTENANCE ON ASG-21 TEST SETS	7.5	6
I28 PERFORM TRACKING CHANNELS (LOCK-ON) CHECKS OR ADJUSTMENTS ON B-52D/G	7.5	49
G3 PERFORM ASG-21 HARMONIZATION ON B-52H	7.4	4
J16 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 SERVO CENTRALS	7.2	24
I11 ISOLATE MALFUNCTIONS IN RADAR TRACK RADAR RANGE MODE ON B-52D/G	7.1	49

TABLE 22

TASKS RATED ABOUT AVERAGE IN DIFFICULTY

TASK	DIFFICULTY INDEX	PERCENT MEMBERS PERFORMING
C15 EVALUATE SUGGESTIONS	5.0	21
I12 ISOLATE MALFUNCTIONS IN SEARCH MODE ON B-52D/G	5.0	49
D3 CONDUCT RESIDENT TECHNICAL TRAINING COURSES	5.0	5
I51 REMOVE OR REPLACE HYDRAULIC BYPASS VALVES ON B-52D/G	5.0	48
J20 PERFORM IN-SHOP MAINTENANCE ON B-52D/G	5.0	24
E13 MAINTAIN TO FILES OR TO COMPLIANCE RECORDS	5.0	18
B27 REVIEW OR IMPLEMENT PROCEDURES FOR DISASTER CONTROL EXERCISES	4.0	12
B31 SUPERVISE CIVILIAN PERSONNEL	5.0	4
H18 PERFORM IN-SHOP MAINTENANCE ON ASG-21 AMMUNITION BOOSTER DRIVE ASSEMBLIES	5.0	6
C21 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING	5.0	13

TABLE 23

TASKS RATED LEAST DIFFICULT

TASK	DIFFICULTY INDEX	PERCENT MEMBERS PERFORMING
I57 REMOVE OR REPLACE LOS POINTERS ON B-52D	3.3	17
I56 REMOVE OR REPLACE LINE OF SIGHT (LOS) INDICATORS ON B-52G	3.3	35
G27 REMOVE OR REPLACE GUN COVER BOOTS ON B-52H	3.2	17
I31 REMOVE OR REPLACE AMMUNITION BOOSTERS ON B-52D/G	3.1	48
F14 REMOVE OR REPLACE CHEMICAL DRYER CARTRIDGES	3.1	47
G22 REMOVE OR REPLACE FCS RADAR CONTROL PANELS ON B-52H	3.1	9
I30 REMOVE OR REPLACE ALTERNATING CURRENT (AC) VOLTAGE REGULATORS ON B-52D/G	3.0	44
I79 REMOVE OR REPLACE .50 CALIBER M-3 GUN HEATERS ON B-52D/G	2.9	47
I32 REMOVE OR REPLACE AMMUNITION CHUTES ON B-52D/G	2.6	48
I49 REMOVE OR REPLACE FEO SELECTOR UNITS ON B-52D/G	2.5	48

COMPARISON OF CURRENT SURVEY TO PREVIOUS SURVEY

The results of this survey were compared to those of Occupational Survey Report dated August 1973. At that time, the AFSC was 323X0E/G. In general, there are no major differences in the results of the two studies. Some differences were noted in the major cluster titles between the previous study and the present study; the clusters of the present study also tend to be broader and encompass a greater proportion of personnel. In addition, one small cluster in the 1973 study (Test Set Maintenance Specialists - 2%) performed tasks which were absorbed in the two present duties related to the B-52H and to B-52D/G aircraft.

The following points in the previous study are still considered to be valid:

1. The shredout E and shredout G members appeared clearly separate.
2. Analysis of background information indicates low potential reenlistment rates for shredout E incumbents. Additionally, shredout E incumbents indicated significantly lower job satisfaction than did shredout G incumbents.
3. Comparison of survey results with AFR 39-1 specialty summary indicated a need for a revision to more accurately reflect the tasks by incumbents in some mechanical and technical functions.
4. Analysis of tasks performed by skill level indicated that "E" shredout personnel are completely involved in all aspects of defensive fire control system maintenance. Analysis of "G" shredout personnel performance by skill level indicates a more phased entry into the overall maintenance picture.

Overall, most of the results and recommendations of the previous study appear to have been substantiated by the present report. These results have some implications for the personnel management system.

IMPLICATIONS

This project was developed to update previous occupational survey data for the 321X1 career ladder including both shredouts E and G. Specifically, the survey data is required to update training programs and to look at the differences in jobs between shredouts and skill levels.

Task data analysis indicates that the incumbents in each shredout grouped into two separate job clusters, one for each shredout. The job of each cluster centered around the type of DFCS and the B-52 model maintained by that shredout.

Analysis of a third cluster comprising supervisor, managerial, and quality controllers indicated a structure reasonably similar to Air Force Directives such as AFM 66-1.

From the results of the analyses, it appears that separate training schools and training materials (STS, CDC, and POIs) are clearly necessary particularly at the entry level. A more detailed discussion of training will be covered in a supplement to this report.

An analysis of the classification structure indicated that only minor changes are needed for the AFR 39-1 specialty description.

Job satisfaction or morale continues to be a problem among B-52H personnel.

APPENDIX A

TASKS COMMONLY PERFORMED BY CLUSTERS AND JOB TYPE GROUPS

B-52D/G FCS CLUSTER
 (GRP008)
 N=178

TASK	PERCENT MEMBERS PERFORMING
I77 REMOVE OR REPLACE TURRET COWLING OR SIDE ARMS ON B-52D/G	93
I73 REMOVE OR REPLACE TARGET POSITION COMPUTERS ON B-52D/G	92
I1 ISOLATE MALFUNCTIONS IN ACQUISITION MODE ON B-52D/G	92
I11 ISOLATE MALFUNCTIONS IN RADAR TRACK RADAR RANGE MODE ON B-52D/G	91
I10 ISOLATE MALFUNCTIONS IN RADAR RANGING ON B-52D/G	91
I15 ISOLATE MALFUNCTIONS IN TRACK RADAR TRACKING CHANNELS ON B-52D/G	90
I16 ISOLATE MALFUNCTIONS IN TRACK RADAR TRANSMITTING OR RECEIVER LOOPS ON B-52D/G	90
I69 REMOVE OR REPLACE SERVO CENTRALS ON B-52D/G	90
I68 REMOVE OR REPLACE SEARCH PULSE SWEEP GENERATORS (PSG) ON B-52D/G	90
I59 REMOVE OR REPLACE MODULATORS ON B-52D/G	90
I22 PERFORM FAST OPERATIONAL CHECKOUTS ON B-52D/G	90
I13 ISOLATE MALFUNCTIONS IN SEARCH RADAR TRANSMITTING AND RECEIVER LOOPS ON B-52D/G	90
I7 ISOLATE MALFUNCTIONS IN WARMUP MODE ON B-52D/G	90
I2 ISOLATE MALFUNCTIONS IN EMERGENCY MODE ON B-52D/G	90
I3 ISOLATE MALFUNCTIONS IN EMERGENCY SEARCH MODE ON B-52D/G	90
I66 REMOVE OR REPLACE RADAR WAVE GUIDES ON B-52D/G	90
I8 ISOLATE MALFUNCTIONS IN MANUAL TRACKING MODE ON B-52D/G	90
I48 REMOVE OR REPLACE FEO ON B-52D/G	90
I74 REMOVE OR REPLACE TRACK FCTs ON B-52D/G	90
I49 REMOVE OR REPLACE FEO SELECTOR UNITS ON B-52D/G	90
I18 PERFORM AMMUNITION DEARMING OR UNLOADING PROCEDURES ON B-52D/G	90
I19 PERFORM AMMUNITION LOADING OR ARMING PROCEDURES ON B-52D/G	90
F1 ARM OR DISARM DFCS WEAPONS	90
I4 ISOLATE MALFUNCTIONS IN HYDRAULIC DRIVE SYSTEM ON B-52D/G	90
I9 ISOLATE MALFUNCTIONS IN PNEUMATIC SYSTEMS ON B-52D/G	90

B-52D/G FCS SHOP TECHNICIANS
(GRP041)
N=10

TASK	PERCENT MEMBERS PERFORMING
J19 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 TARGET POSITION COMPUTERS (TPC)	100
J14 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 SEARCH ANTENNAS	100
J16 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 SERVO CENTRALS	100
J8 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 MODULATORS	100
J21 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 TRACKING CHANNELS (LOCK-ON) CHECKS AND ADJUSTMENTS	100
J11 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 PSGs	100
J29 PERFORM IN-SHOP MAINTENANCE ON COMPUTER CENTRALS ON ASG-15, MD-9	100
J17 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 SERVO SYSTEM CENTRAL SUBASSEMBLIES (EXCLUDING POWER, CONTROL OR COLUMN)	100
J15 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 SEARCH FTCs	100
J7 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 CONTROL HANDLES	100
J6 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 COMPUTER CENTRAL SUBASSEMBLIES	100
J20 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 TRACK ANTENNAS	100
J9 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 POWER CENTRALS	100
J23 PERFORM IN-SHOP MAINTENANCE ON AUXILIARY CENTRALS ON ASG-15, MD-9	100
J33 PERFORM IN-SHOP MAINTENANCE ON FEO DEVELOPERS	100
J32 PERFORM IN-SHOP MAINTENANCE ON FEOs ON ASG-15, MD-9	90
J31 PERFORM IN-SHOP MAINTENANCE ON DATA TAKEOFF UNITS ON ASG-15, MD-9	90
J22 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 TRACK SUBASSEMBLIES	90
J3 PERFORM IN-SHOP MAINTENANCE ON AC VOLTAGE REGULATORS ON ASG-15, MD-9	90
J24 PERFORM IN-SHOP MAINTENANCE ON AUXILIARY CENTRAL SUBASSEMBLIES ON ASG-15, MD-9	90
J30 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 TURRETS	80
J34 PERFORM IN-SHOP MAINTENANCE ON FEO SELECTOR UNITS ON B-52D/G	80

B-52D/G ENTRY FLIGHTLINE MECHANICS
(GRP067)
N=6

TASK	PERCENT MEMBERS PERFORMING
I77 REMOVE OR REPLACE TURRET COWLING OR SIDE ARMS ON B-52D/G	100
I48 REMOVE OR REPLACE FEO ON B-52D/G	100
I49 REMOVE OR REPLACE FEO SELECTOR UNITS ON B-52D/G	100
I33 REMOVE OR REPLACE ANTENNAS ON B-52D/G	100
I27 PERFORM PRE-FLIGHT OR POST-FLIGHT INSPECTIONS ON B-52D/G	100
I59 REMOVE OR REPLACE MODULATORS ON B-52D/G	100
I19 PERFORM AMMUNITION LOADING OR ARMING PROCEDURES ON B-52D/G	100
I68 REMOVE OR REPLACE SEARCH PULSE SWEEP GENERATORS (PSG) ON B-52D/G	100
I18 PERFORM AMMUNITION DEARMING OR UNLOADING PROCEDURES ON B-52D/G	100
I44 REMOVE OR REPLACE CONTROL HANDLES ON B-52D/G	100
I73 REMOVE OR REPLACE TARGET POSITION COMPUTERS ON B-52D/G	100
I66 REMOVE OR REPLACE RADAR WAVE GUIDES ON B-52D/G	100
I38 REMOVE OR REPLACE COMPUTER CENTRALS ON B-52D/G	83
I32 REMOVE OR REPLACE AMMUNITION CHUTES ON B-52D/G	83
I69 REMOVE OR REPLACE SERVO CENTRALS ON B-52D/G	83
I37 REMOVE OR REPLACE COMPRESSORS ON B-52D/G	83
F1 ARM OR DISARM DFCS WEAPONS	83
I7 ISOLATE MALFUNCTIONS IN ON MODE ON B-52D/G	83
I78 REMOVE OR REPLACE .50 CALIBER M-3 GUNS ON B-52D/G	83
I34 REMOVE OR REPLACE AUXILIARY CENTRALS ON B-52D/G	83
I67 REMOVE OR REPLACE SEARCH FREQUENCY CONVERTER TRANSMITTERS ON B-52D/G	83
I31 REMOVE OR REPLACE AMMUNITION BOOSTERS ON B-52D/G	67
I11 ISOLATE MALFUNCTIONS IN RADAR TRACK RADAR RANGE MODE ON B-52D/G	67
F13 REMOVE OR REPLACE ASSOCIATED FCS ELECTRICAL CONNECTORS	67

B-52D/G FCS LINE-SHOP CHIEFS
(GRPO38)
N=8

TASK	PERCENT MEMBERS PERFORMING
E4 COMPLETE FORMS	100
C4 EVALUATE COMPLETED MAINTENANCE ACTIONS	100
B35 SUPERVISE DEFENSIVE FIRE CONTROL SYSTEMS TECHNICIANS (AFSC 32170G)	100
B9 DIRECT FLIGHTLINE MAINTENANCE	100
C5 EVALUATE COMPLIANCE WITH WORK STANDARDS	100
B6 DEVELOP OR MAINTAIN STATUS BOARDS, GRAPHS, OR CHARTS	100
C10 EVALUATE MAINTENANCE OF EQUIPMENT OR SUPPLIES	100
B24 PREPARE REQUISITIONS FOR SUPPLIES OR EQUIPMENT	100
C18 INSPECT FLIGHTLINE OR SHOP FACILITIES	100
A7 ESTABLISH WORK PRIORITIES	100
B1 BRIEF PERSONNEL	100
D5 DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	100
B23 INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES	100
I20 PERFORM COMPLETE OPERATIONAL CHECKOUTS ON B-52D/G	100
I11 ISOLATE MALFUNCTIONS IN RADAR TRACK RADAR RANGE MODE ON B-52D/G	100
I10 ISOLATE MALFUNCTIONS IN RADAR RANGING ON B-52D/G	100
I16 ISOLATE MALFUNCTIONS IN TRACK RADAR TRANSMITTING OR RECEIVER LOOPS ON B-52D/G	100
I22 PERFORM FAST OPERATIONAL CHECKOUTS ON B-52D/G	100
I24 PERFORM HARMONIZATION PROCEDURES ON B-52D/G	100
I1 ISOLATE MALFUNCTIONS IN ACQUISITION MODE ON B-52D/G	100
I6 ISOLATE MALFUNCTIONS IN IN-LIMITS MODE ON B-52D/G	100
I12 ISOLATE MALFUNCTIONS IN SEARCH MODE ON B-52D/G	100

B-52D/G FCS SHOP LEAD TECHNICIANS
(GRP056)
N=6

TASK	PERCENT MEMBERS PERFORMING
J21 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 TRACKING CHANNELS (LOCK-ON) CHECKS AND ADJUSTMENTS	100
J43 PERFORM IN-SHOP MAINTENANCE ON TRACK FCT ON ASG-15, MD-9	100
J19 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 TARGET POSITION COMPUTERS (TPC)	100
J11 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 PSGs	100
J14 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 SEARCH ANTENNAS	100
J15 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 SEARCH FTCs	100
I11 ISOLATE MALFUNCTIONS IN RADAR TRACK RADAR RANGE MODE ON B-52D/G	100
F15 REMOVE, REPLACE OR SPLICE FCS ELECTRICAL WIRING	100
I15 ISOLATE MALFUNCTIONS IN TRACK RADAR TRACKING CHANNELS ON B-52D/G	100
J41 PERFORM IN-SHOP MAINTENANCE ON RADAR INDICATORS ON ASG-15, MD-9	100
I10 ISOLATE MALFUNCTIONS IN RADAR RANGING ON B-52D/G	100
I8 ISOLATE MALFUNCTIONS IN MANUAL TRACKING MODE ON B-52D/G	100
J17 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 SERVO SYSTEM CENTRAL SUBASSEMBLIES (EXCLUDING POWER, CONTROL OR COLUMN)	100
I5 ISOLATE MALFUNCTIONS IN INDICATING LOOPS ON B-52D/G	100
I16 ISOLATE MALFUNCTIONS IN TRACK RADAR TRANSMITTING OR RECEIVER LOOPS ON B-52D/G	100
I28 PERFORM TRACKING CHANNELS (LOCK-ON) CHECKS OR ADJUSTMENTS ON B-52D/G	100
I13 ISOLATE MALFUNCTIONS IN SEARCH RADAR TRANSMITTING AND RECEIVER LOOPS ON B-52D/G	100
J13 PERFORM IN-SHOP MAINTENANCE ON ASG-15, MD-9 RADAR POWER SUPPLIES	100
I7 ISOLATE MALFUNCTIONS IN ON MODE ON B-52D/G	100
I77 REMOVE OR REPLACE TURRET COWLING OR SIDE ARMS ON B-52D/G	100
I1 ISOLATE MALFUNCTIONS IN ACQUISITION MODE ON B-52D/G	100
I2 ISOLATE MALFUNCTIONS IN EMERGENCY MODE ON B-52D/G	100
F12 PERFORM IN-SHOP MAINTENANCE ON TEST PLUGS OR CABLES	100

B-52D/G FCS LEAD MECHANICS
(GRP102)
N=63

TASK	PERCENT MEMBERS PERFORMING
I11 ISOLATE MALFUNCTIONS IN RADAR TRACK RADAR RANGE MODE ON B-52D/G	100
I15 ISOLATE MALFUNCTIONS IN TRACK RADAR TRACKING CHANNELS ON B-52D/G	100
I28 PERFORM TRACKING CHANNELS (LOCK-ON) CHECKS OR ADJUSTMENTS ON B-52D/G	100
I8 ISOLATE MALFUNCTIONS IN MANUAL TRACKING MODE ON B-52D/G	100
I77 REMOVE OR REPLACE TURRET COWLING OR SIDE ARMS ON B-52D/G	100
I16 ISOLATE MALFUNCTIONS IN TRACK RADAR TRANSMITTING OR RECEIVER LOOPS ON B-52D/G	100
I73 REMOVE OR REPLACE TARGET POSITION COMPUTERS ON B-52D/G	100
I74 REMOVE OR REPLACE TRACK FCTs ON B-52D/G	100
F15 REMOVE, REPLACE OR SPLICE FCS ELECTRICAL WIRING	100
I69 REMOVE OR REPLACE SERVO CENTRALS ON B-52D/G	100
I68 REMOVE OR REPLACE SEARCH PULSE SWEEP GENERATORS (PSG) ON B-52D/G	100
I70 REMOVE OR REPLACE SERVO CENTRAL SUBASSEMBLIES ON B-52D/G	100
I59 REMOVE OR REPLACE MODULATORS ON B-52D/G	100
I33 REMOVE OR REPLACE ANTENNAS ON B-52D/G	100
I10 ISOLATE MALFUNCTIONS IN RADAR RANGING ON B-52D/G	100
I22 PERFORM FAST OPERATIONAL CHECKOUTS ON B-52D/G	100
I38 REMOVE OR REPLACE COMPUTER CENTRALS ON B-52D/G	100
I23 PERFORM FCS FEO CHECKOUTS ON B-52D/G	100
I13 ISOLATE MALFUNCTIONS IN SEARCH RADAR TRANSMITTING AND RECEIVER LOOPS ON B-52D/G	100
I5 ISOLATE MALFUNCTIONS IN INDICATING LOOPS ON B-52D/G	100
I3 ISOLATE MALFUNCTIONS IN EMERGENCY SEARCH MODE ON B-52D/G	100
I12 ISOLATE MALFUNCTIONS IN SEARCH MODE ON B-52D/G	100
I1 ISOLATE MALFUNCTIONS IN ACQUISITION MODE ON B-52D/G	100
I7 ISOLATE MALFUNCTIONS IN ON MODE ON B-52D/G	100
I4 ISOLATE MALFUNCTIONS IN HYDRAULIC DRIVE SYSTEM ON B-52D/G	100

B-52D/G FCS FLIGHTLINE MECHANICS
(GRP095)
N=79

TASK	PERCENT MEMBERS PERFORMING
I77 REMOVE OR REPLACE TURRET COWLING OR SIDE ARMS ON B-52D/G	100
I11 ISOLATE MALFUNCTIONS IN RADAR TRACK RADAR RANGE MODE ON B-52D/G	100
I73 REMOVE OR REPLACE TARGET POSITION COMPUTERS ON B-52D/G	100
I69 REMOVE OR REPLACE SERVO CENTRALS ON B-52D/G	100
I8 ISOLATE MALFUNCTIONS IN MANUAL TRACKING MODE ON B-52D/G	99
I48 REMOVE OR REPLACE FEO ON B-52D/G	99
I15 ISOLATE MALFUNCTIONS IN TRACK RADAR TRACKING CHANNELS ON B-52D/G	99
I16 ISOLATE MALFUNCTIONS IN TRACK RADAR TRANSMITTING OR RECEIVER LOOPS ON B-52D/G	99
I74 REMOVE OR REPLACE TRACK FCTs ON B-52D/G	99
I68 REMOVE OR REPLACE SEARCH PULSE SWEEP GENERATORS (PSG) ON B-52D/G	99
I23 PERFORM FCS FEO CHECKOUTS ON B-52D/G	99
I59 REMOVE OR REPLACE MODULATORS ON B-52D/G	99
I18 PERFORM AMMUNITION DEARMING OR UNLOADING PROCEDURES ON B-52D/G	99
I76 REMOVE OR REPLACE TURRETS ON B-52D/G	99
I53 REMOVE OR REPLACE INTEGRATING GYROS ON B-52D/G	99
I55 REMOVE OR REPLACE LIMITING ASSEMBLIES ON B-52D/G	99
I52 REMOVE OR REPLACE HYDRAULIC PUMPS ON B-52D/G	99
I32 REMOVE OR REPLACE AMMUNITION CHUTES ON B-52D/G	99
I17 ISOLATE MALFUNCTIONS IN WARMUP MODE ON B-52D/G	99
F1 ARM OR DISARM DFCS WEAPONS	97
I19 PERFORM AMMUNITION LOADING OR ARMING PROCEDURES ON B-52D/G	97
I37 REMOVE OR REPLACE COMPRESSORS ON B-52D/G	97
I22 PERFORM FAST OPERATIONAL CHECKOUTS ON B-52D/G	97
I5 ISOLATE MALFUNCTIONS IN INDICATING LOOPS ON B-52D/G	97
I44 REMOVE OR REPLACE CONTROL HANDLES ON B-52D/G	97

B-52H FCS CLUSTER
(GRP014)
N=60

TASK	PERCENT MEMBERS PERFORMING
G18 REMOVE OR REPLACE CONTROL INDICATORS ON B-52H	92
G16 REMOVE OR REPLACE BALLISTIC COMPUTERS ON B-52H	92
G4 PERFORM ASG-21 HYDRAULIC SERVICING	90
G6 PERFORM FAST-OPERATIONAL CHECKOUTS OF ASG-21 DFCS	90
G23 REMOVE OR REPLACE FREQUENCY CONVERTER TRANSMITTERS (FCT) ON B-52H	90
G41 REMOVE OR REPLACE TRACKING CONTROL ASSEMBLIES (TCA) ON B-52H	90
G19 REMOVE OR REPLACE CONTROLLED LINE PLATFORMS (CLP) ON B-52H	90
G24 REMOVE OR REPLACE FREQUENCY SELECTOR CONTROLS (FSC) ON B-52H	90
G15 REMOVE OR REPLACE ANTENNAS ON B-52H	88
G37 REMOVE OR REPLACE PRESSURIZATION SHUTOFF CONTROLS ON B-52H	88
G39 REMOVE OR REPLACE SYSTEM CONTROL ASSEMBLIES (SCA) ON B-52H	88
F13 REMOVE OR REPLACE ASSOCIATED FCS ELECTRICAL CONNECTORS	88
G36 REMOVE OR REPLACE PRESSURIZATION PACKAGES ON B-52H	85
F2 BRIEF OR DEBRIEF CREWS	85
G1 ARM OR DISARM M-61 GUNS ON B-52H	83
G5 PERFORM ASG-21 PHASE INSPECTIONS	83
E10 INITIATE UNSATISFACTORY REPORTS	83
F10 LACE ELECTRICAL WIRING ASSEMBLIES	83
F1 ARM OR DISARM DFCS WEAPONS	82
G21 REMOVE OR REPLACE FCS CONTROLS ON B-52H	80
G20 REMOVE OR REPLACE ELECTRONIC POWER SUPPLIES ON B-52H	78
G34 REMOVE OR REPLACE M-61 GUNS ON B-52H	77
F3 CONDUCT DFCS CHECKOUTS FOR AIRCRAFT READINESS IN ACCORDANCE WITH AIRCRAFT FORMS	77
G34 REMOVE OR REPLACE M-61 GUNS ON B-52H	77

B-52H FCS SUPERVISORS
(GRP073)
N=11

TASK	PERCENT MEMBERS PERFORMING
B32 SUPERVISE DEFENSIVE FIRE CONTROL SYSTEMS SPECIALISTS (AFSC 32150E)	100
B9 DIRECT FLIGHTLINE MAINTENANCE	100
B29 SUPERVISE APPRENTICE DEFENSIVE FIRE CONTROL SYSTEMS MECHANICS (AFSC 32130E)	100
G23 REMOVE OR REPLACE FREQUENCY CONVERTER TRANSMITTERS (FCT) ON B-52H	100
G24 REMOVE OR REPLACE FREQUENCY SELECTOR CONTROLS (FSC) ON B-52H	100
G41 REMOVE OR REPLACE TRACKING CONTROL ASSEMBLIES (TCA) ON B-52H	100
G19 REMOVE OR REPLACE CONTROLLED LINE PLATFORMS (CLP) ON B-52H	100
G2 ISOLATE MALFUNCTIONS ON ASG-21 FCS TO LRUs	100
F7 DRIVE VEHICLES FOR DFCS MAINTENANCE SUPPORT	100
A10 PLAN OR SCHEDULE WORK ASSIGNMENTS	100
F8 INTERPRET TO WIRING OR CIRCUIT DIAGRAMS FOR SUBORDINATES	100
G4 PERFORM ASG-21 HYDRAULIC SERVICING	100
G18 REMOVE OR REPLACE CONTROL INDICATORS ON B-52H	100
G16 REMOVE OR REPLACE BALLISTIC COMPUTERS ON B-52H	100
G6 PERFORM FAST-OPERATIONAL CHECKOUTS OF ASG-21 DFCS	100
F3 CONDUCT DFCS CHECKOUTS FOR AIRCRAFT READINESS IN ACCORDANCE WITH AIRCRAFT FORMS	100
D5 DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	100
G15 REMOVE OR REPLACE ANTENNAS ON B-52H	100
F1 ARM OR DISARM DFCS WEAPONS	100
G1 ARM OR DISARM M-61 GUNS ON B-52H	100
C22 WRITE AIRMEN PERFORMANCE REPORTS (APR)	100
F2 BRIEF OR DEBRIEF CREWS	100
G32 REMOVE OR REPLACE LIMIT MECHANISMS ON B-52H	100
G10 PREPARE FOR INFLIGHT FIRING ON B-52H	100

B-52H FCS SHOP LEAD MECHANICS
(GRP093)
N=6

TASK	PERCENT MEMBERS PERFORMING
B8 DIRECT FIELD SHOP MAINTENANCE	100
B29 SUPERVISE APPRENTICE DEFENSIVE FIRE CONTROL SYSTEMS MECHANICS (AFSC 32130E)	100
H26 PERFORM IN-SHOP MAINTENANCE ON ASG-21 CONTROL INDICATORS	100
H38 PERFORM IN-SHOP MAINTENANCE ON ASG-21 TCAs	100
B32 SUPERVISE DEFENSIVE FIRE CONTROL SYSTEMS SPECIALISTS (AFSC 32150E)	100
H29 PERFORM IN-SHOP MAINTENANCE ON ASG-21 FCTs	100
H12 ISOLATE MALFUNCTIONS ON CONTROL INDICATOR TEST SETS TO REPLACEABLE SUBASSEMBLIES	100
E19 POST ENTRIES ON MAINTENANCE DATA COLLECTION FORMS	100
H39 PERFORM IN-SHOP MAINTENANCE ON ASG-21 TEST SETS	100
H23 PERFORM IN-SHOP MAINTENANCE ON ASG-21 BALLISTIC COMPUTERS	100
H37 PERFORM IN-SHOP MAINTENANCE ON ASG-21 SCAs	100
H10 ISOLATE MALFUNCTIONS ON BALLISTIC COMPUTER TEST SETS TO REPLACEABLE SUBASSEMBLIES	100
H17 ISOLATE MALFUNCTIONS ON TCA TEST SETS TO REPLACEABLE SUBASSEMBLIES	100
H22 PERFORM IN-SHOP MAINTENANCE ON ASG-21 ANTENNAS	100
C4 EVALUATE COMPLETED MAINTENANCE ACTIONS	100
F8 INTERPRET TO WIRING OR CIRCUIT DIAGRAMS FOR SUBORDINATES	100
E18 POST ENTRIES ON EQUIPMENT MAINTENANCE AND RECORD FORMS	100
A7 ESTABLISH WORK PRIORITIES	100
H27 PERFORM IN-SHOP MAINTENANCE ON ASG-21 CLPs	100
H4 CALIBRATE CONTROL INDICATOR TEST SETS	100
F16 SCHEDULE CALIBRATION OR CALIBRATE CATEGORY II TEST EQUIPMENT	100
H2 CALIBRATE BALLISTIC COMPUTER TEST SETS	100
H8 CALIBRATE TCA TEST SETS	100

B-52H FCS SHOP TECHNICIANS
(GRP089)
N=6

TASK	PERCENT MEMBERS PERFORMING
H23 PERFORM IN-SHOP MAINTENANCE ON ASG-21 BALLISTIC COMPUTERS	100
H38 PERFORM IN-SHOP MAINTENANCE ON ASG-21 TCAs	100
H27 PERFORM IN-SHOP MAINTENANCE ON ASG-21 CLPs	100
H29 PERFORM IN-SHOP MAINTENANCE ON ASG-21 FCTs	100
H37 PERFORM IN-SHOP MAINTENANCE ON ASG-21 SCAs	100
H22 PERFORM IN-SHOP MAINTENANCE ON ASG-21 ANTENNAS	100
H26 PERFORM IN-SHOP MAINTENANCE ON ASG-21 CONTROL INDICATORS	100
H30 PERFORM IN-SHOP MAINTENANCE ON ASG-21 FREQUENCY SELECTOR ASSEMBLIES	100
H10 ISOLATE MALFUNCTIONS ON BALLISTIC COMPUTER TEST SETS TO REPLACEABLE SUBASSEMBLIES	100
F12 PERFORM IN-SHOP MAINTENANCE ON TEST PLUGS OR CABLES	100
H11 ISOLATE MALFUNCTIONS ON CLP TEST SETS TO REPLACEABLE SUBASSEMBLIES	100
H25 PERFORM IN-SHOP MAINTENANCE ON ASG-21 CONTROLS	100
H12 ISOLATE MALFUNCTIONS ON CONTROL INDICATOR TEST SETS TO REPLACEABLE SUBASSEMBLIES	100
E4 COMPLETE FORMS	100
H17 ISOLATE MALFUNCTIONS ON TCA TEST SETS TO REPLACEABLE SUBASSEMBLIES	100
F13 REMOVE OR REPLACE ASSOCIATED FCS ELECTRICAL CONNECTORS	100
H9 ISOLATE MALFUNCTIONS ON ANTENNA TEST SETS TO REPLACEABLE SUBASSEMBLIES	100
F4 CLEAN OR REPLACE LINE REPLACEABLE UNITS (LRU) TEST SET OR BLACK BOX DUST FILTERS	100
F15 REMOVE, REPLACE OR SPLICE FCS ELECTRICAL WIRING	100
F10 LACE ELECTRICAL WIRJNC ASSEMBLIES	100
G2 ISOLATE MALFUNCTIONS ON ASG-21 FCS TO LRUs	100
F11 OPERATE POWERED OR NONPOWERED AEROSPACE GROUND EQUIPMENT (AGE) SUCH AS MD-3, NF-2, MD-4, B-9 OR BT-400	100
H15 ISOLATE MALFUNCTIONS ON GUN CONTROLS OF FCS CONTROL TEST SETS TO REPLACEABLE SUBASSEMBLIES	100

SUPERVISORY AND MANAGERIAL CLUSTER
(GRP010)
N=81

TASK	PERCENT MEMBERS PERFORMING
B1 BRIEF PERSONNEL	90
B4 COUNSEL SUBORDINATES ON PERSONAL OR MILITARY RELATED PROBLEMS	80
B23 INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES	76
B12 DRAFT CORRESPONDENCE	74
C4 EVALUATE COMPLETED MAINTENANCE ACTIONS	72
C5 EVALUATE COMPLIANCE WITH WORK STANDARDS	72
E4 COMPLETE FORMS	70
B5 DEVELOP OR IMPROVE WORK METHODS OR PROCEDURES	69
B2 CONDUCT OR PARTICIPATE IN STAFF MEETINGS	69
C10 EVALUATE MAINTENANCE OF EQUIPMENT OR SUPPLIES	68
C7 EVALUATE INSPECTION REPORTS OR PROCEDURES	67
C18 INSPECT FLIGHTLINE OR SHOP FACILITIES	67
C1 EVALUATE ADMINISTRATIVE FORMS, FILES, OR PROCEDURES	65
B18 IMPLEMENT SAFETY PROGRAMS OR PROCEDURES	65
C22 WRITE AIRMEN PERFORMANCE REPORTS (APR)	62
A10 PLAN OR SCHEDULE WORK ASSIGNMENTS	62
B3 CORRELATE MAINTENANCE REQUIREMENTS WITH OTHER MAINTENANCE ORGANIZATIONS	60
C11 EVALUATE NEWLY ASSIGNED PERSONNEL	60
D5 DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	60
E5 CORRECT OR UPDATE REPORTS	59
A9 PLAN OR PREPARE BRIEFINGS	59
B19 IMPLEMENT SECURITY PROGRAMS OR PROCEDURES	59

FCS BRANCH CHIEFS
 (GRP088)
 N=30

TASK	PERCENT MEMBERS PERFORMING
B23 INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES	100
B12 DRAFT CORRESPONDENCE	100
B1 BRIEF PERSONNEL	100
B2 CONDUCT OR PARTICIPATE IN STAFF MEETINGS	100
B4 CONUSEL SUBORDINATES ON PERSONAL OR MILITARY RELATED PROBLEMS	100
B3 CORRELATE MAINTENANCE REQUIREMENTS WITH OTHER MAINTENANCE ORGANIZATIONS	100
A1 ASSIGN PERSONNEL TO DUTY POSITIONS	100
B18 IMPLEMENT SAFETY PROGRAMS OR PROCEDURES	100
B25 PRESENT SUPERVISORY INDOCTRINATION TO NEWLY ASSIGNED PERSONNEL	97
C20 RECOMMEND PERSONNEL FOR AWARDS	97
A15 SCHEDULE LEAVES OR PASSES	97
C6 EVALUATE INDIVIDUALS FOR DEMOTION, PROMOTION OR RECLASSIFICATION	97
C10 EVALUATE MAINTENANCE OF EQUIPMENT OR SUPPLIES	97
B7 DIRECT ADMINISTRATIVE FUNCTIONS	97
B25 PRESENT SUPERVISORY INDOCTRINATION TO NEWLY ASSIGNED PERSONNEL	97
C20 RECOMMEND PERSONNEL FOR AWARDS	97
C18 INSPECT FLIGHT LINE OR SHOP FACILITIES	93
C22 WRITE AIRMEN PERFORMANCE REPORTS (APR)	93
C17 EVALUATE WORK SCHEDULES	93
B5 DEVELOP OR IMPROVE WORK METHODS OR PROCEDURES	93
C1 EVALUATE ADMINISTRATIVE FORMS, FILES, OR PROCEDURES	93
C4 EVALUATE COMPLETED MAINTENANCE ACTIONS	93
C11 EVALUATE NEWLY ASSIGNED PERSONNEL	93

HQs FCS QUALITY CONTROL INSPECTORS
(GRP078)
N=8

TASK	PERCENT MEMBERS PERFORMING	
C18	INSPECT FLIGHTLINE OR SHOP FACILITIES	100
C4	EVALUATE COMPLETED MAINTENANCE ACTIONS	100
C5	EVALUATE COMPLIANCE WITH WORK STANDARDS	100
C7	EVALUATE INSPECTION REPORTS OR PROCEDURES	100
B23	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES	100
E1	COMPILE INSPECTION REPORTS OR RECORDS	100
E4	COMPLETE FORMS	100
C1	EVALUATE ADMINISTRATIVE FORMS, FILES, OR PROCEDURES	100
C2	EVALUATE ALERT OR EMERGENCY PROCEDURES	100
B12	DRAFT CORRESPONDENCE	100
C10	EVALUATE MAINTENANCE OF EQUIPMENT OR SUPPLIES	87
C16	EVALUATE UNSATISFACTORY REPORTS	87
E5	CORRECT OR UPDATE REPORTS	87
C11	EVALUATE NEWLY ASSIGNED PERSONNEL	87
B1	BRIEF PERSONNEL	87
C13	EVALUATE REPORTED TECHNICAL ORDER (TO) DEFICIENCIES	87
B18	IMPLEMENT SAFETY PROGRAMS OR PROCEDURES	87
C14	EVALUATE SAFETY OR SECURITY PROGRAMS	75
C19	INVESTIGATE ACCIDENTS OR INCIDENTS	75
C3	EVALUATE CHARTS OR GRAPHS	75
D10	EVALUATE TRAINING OF INDIVIDUALS OR UNITS	62
E21	PREPARE DRAFTS OF CORRESPONDENCE OR REPORTS	62
C24	WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS	62
E10	INITIATE UNSATISFACTORY REPORTS	62

FCS QUALITY CONTROL INSPECTORS
(GRP018)
N=9

TASK	PERCENT MEMBERS PERFORMING
C4	100
C18	89
E1	89
C5	78
E4	67
B12	67
B1	67
E21	56
C3	56
C1	56
C15	56
E2	44
B2	44
C7	44
C19	44
B5	44
C24	44
E19	44

FCS TECHNICAL SCHOOL INSTRUCTORS
(GRP034)
N=10

TASK	PERCENT MEMBERS PERFORMING
D3 CONDUCT RESIDENT TECHNICAL TRAINING COURSES	100
F8 INTERPRET TO WIRING OR CIRCUIT DIAGRAMS FOR SUBORDINATES	100
D1 ADMINISTER OR SCORE TESTS	100
D17 WRITE TEST QUESTIONS	100
B1 EVALUATE ADMINISTRATIVE FORMS, FILES, OR PROCEDURES	100
B4 EVALUATE COMPLETED MAINTENANCE ACTIONS	100
D5 DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	90
D6 DEVELOP TECHNICAL COURSE MATERIALS	80
E4 COMPLETE FORMS	80
F11 OPERATE POWERED OR NONPOWERED AEROSPACE GROUND EQUIPMENT (AGE) SUCH AS MD-3, NF-2, MD-4, B-9, OR BT-400	70
B23 INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES	70
B5 DEVELOP OR IMPROVE WORK METHODS OR PROCEDURES	60
D10 EVALUATE TRAINING OF INDIVIDUALS OR UNITS	60
C5 EVALUATE COMPLIANCE WITH WORK STANDARDS	50
I20 PERFORM COMPLETE OPERATIONAL CHECKOUTS ON B-52D/G	50
I28 PERFORM TRACKING CHANNELS (LOCK-ON) CHECKS OR ADJUSTMENTS ON B-52D/G	50
I22 PERFORM FAST OPERATIONAL CHECKOUTS ON B-52D/G	50
A9 PLAN OR PREPARE BRIEFINGS	50
I23 PERFORM FCS FEO CHECKOUTS ON B-52D/G	50
E9 IDENTIFY INFORMATION AS SENSITIVE, UNCLASSIFIED OR OF POSSIBLE INTELLIGENCE VALUE	50
B19 IMPLEMENT SECURITY PROGRAMS OR PROCEDURES	50
E18 POST ENTRIES ON EQUIPMENT MAINTENANCE AND RECORD FORMS	50
E14 MAKE CHANGES TO COMPONENT MAINTENANCE OR TESTING PROCEDURES	50
C6 EVALUATE INDIVIDUALS FOR DEMOTION, PROMOTION OR RECLASSIFICATION	50
B18 IMPLEMENT SAFETY PROGRAMS OR PROCEDURES	50

B-52H FCS FLIGHTLINE MECHANIC
(GRP099)
N=8

TASK	PERCENT MEMBERS PERFORMING
F1 ARM OR DISARM DFCS WEAPONS	100
G23 REMOVE OR REPLACE FREQUENCY CONVERTER TRANSMITTERS (FCT) ON B-52H	100
G1 ARM OR DISARM M-61 GUNS ON B-52H	100
G41 REMOVE OR REPLACE TRACKING CONTROL ASSEMBLIES (TCA) ON B-52H	100
G4 PERFORM ASG-21 HYDRAULIC SERVICING	100
G34 REMOVE OR REPLACE M-61 GUNS ON B-52H	100
G15 REMOVE OR REPLACE ANTENNAS ON B-52H	100
G16 REMOVE OR REPLACE BALLISTIC COMPUTERS ON B-52H	100
G19 REMOVE OR REPLACE CONTROLLED LINE PLATFORMS (CLP) ON B-52H	100
G2 ISOLATE MALFUNCTIONS ON ASG-21 FCS TO LRUs	100
G10 PREPARE FOR INFLIGHT FIRING ON B-52H	100
G6 PERFORM FAST-OPERATIONAL CHECKOUTS OF ASG-21 DFCS	100
G36 REMOVE OR REPLACE PRESSURIZATION PACKAGES ON B-52H	100
G24 REMOVE OR REPLACE FREQUENCY SELECTOR CONTROLS (FCS) ON B-52H	100
G18 REMOVE OR REPLACE CONTROL INDICATORS ON B-52H	100
G30 REMOVE OR REPLACE HYDRAULIC SERVO VALVES ON B-52H	100
F13 REMOVE OR REPLACE ASSOCIATED FCS ELECTRICAL CONNECTORS	100
F15 REMOVE, REPLACE OR SPLICE FCS ELECTRICAL WIRING	100
F2 BRIEF OR DEBRIEF CREWS	100
G28 REMOVE OR REPLACE GUN DRIVE MOTORS ON B-52H	100
G29 REMOVE OR REPLACE GUN FEEDERS ON B-52H	100
G21 REMOVE OR REPLACE FCS CONTROLS ON B-52H	100
G25 REMOVE OR REPLACE GUN CONTROL ASSEMBLIES ON B-52H	100

B-52H FCS ENTRY FLIGHTLINE MECHANICS
(GRP118)
N=19

TASK	PERCENT MEMBERS PERFORMING
G4 PERFORM ASG-21 HYDRAULIC SERVICING	100
G2 ISOLATE MALFUNCTIONS ON ASG-21 FCS TO LRUs	100
G24 REMOVE OR REPLACE FREQUENCY SELECTOR CONTROLS (FCS) ON B-52H	100
G23 REMOVE OR REPLACE FREQUENCY CONVERTER TRANSMITTERS (FCT) ON B-52H	100
G6 PERFORM FAST-OPERATIONAL CHECKOUTS OF ASG-21 DFCS	100
G41 REMOVE OR REPLACE TRACKING CONTROL ASSEMBLIES (TCA) ON B-52H	100
G19 REMOVE OR REPLACE CONTROLLED LINE PLATFORMS (CLP) ON B-52H	100
G16 REMOVE OR REPLACE BALLISTIC COMPUTERS ON B-52H	100
G39 REMOVE OR REPLACE SYSTEM CONTROL ASSEMBLIES (SCA) ON B-52H	100
G15 REMOVE OR REPLACE ANTENNAS ON B-52H	100
G18 REMOVE OR REPLACE CONTROL INDICATORS ON B-52H	100
G1 ARM OR DISARM M-61 GUNS ON B-52H	100
G5 PERFORM ASG-21 PHASE INSPECTIONS	100
F1 ARM OR DISARM DFCS WEAPONS	100
G36 REMOVE OR REPLACE PRESSURIZATION PACKAGES ON B-52H	100
F3 CONDUCT DFCS CHECKOUTS FOR AIRCRAFT READINESS IN ACCORDANCE WITH AIRCRAFT FORMS	95
F2 BRIEF OR DEBRIEF CREWS	95
G20 REMOVE OR REPLACE ELECTRONIC POWER SUPPLIES ON B-52H	95
F15 REMOVE, REPLACE OR SPLICE FCS ELECTRICAL WIRING	95
G29 REMOVE OR REPLACE GUN FEEDERS ON B-52H	95
F13 REMOVE OR REPLACE ASSOCIATED FCS ELECTRICAL CONNECTORS	89
G34 REMOVE OR REPLACE M-61 GUNS ON B-52H	89

B-52H FCS SHOP MECHANICS
(GRP033)
N=6

TASK	PERCENT MEMBERS PERFORMING
H23 PERFORM IN-SHOP MAINTENANCE ON ASG-21 BALLISTIC COMPUTERS	100
H22 PERFORM IN-SHOP MAINTENANCE ON ASG-21 AMMUNITION FEED CHUTES	100
H37 PERFORM IN-SHOP MAINTENANCE ON ASG-21 SCAs	100
H38 PERFORM IN-SHOP MAINTENANCE ON ASG-21 TCAs	100
H29 PERFORM IN-SHOP MAINTENANCE ON ASG-21 FCTs	83
F12 PERFORM IN-SHOP MAINTENANCE ON TEST PLUGS OR CABLES	83
F13 REMOVE OR REPLACE ASSOCIATED FCS ELECTRICAL CONNECTORS	83
H27 PERFORM IN-SHOP MAINTENANCE ON ASG-21 CLPs	83
H35 PERFORM IN-SHOP MAINTENANCE ON ASG-21 PRESSURIZATION PACKAGES	83
H30 PERFORM IN-SHOP MAINTENANCE ON ASG-21 FREQUENCY SELECTOR ASSEMBLIES	67
F15 REMOVE, REPLACE OR SPLICE FCS ELECTRICAL WIRING	67
E15 PERFORM ACCOUNT CUSTODIAL DUTIES	67
H39 PERFORM IN-SHOP MAINTENANCE ON ASG-21 TEST SETS	67
H40 PERFORM IN-SHOP MAINTENANCE ON ASG-21 TEST SET SUBASSEMBLIES	67
F10 LACE ELECTRICAL WIRING ASSEMBLIES	67
H10 ISOLATE MALFUNCTIONS ON BALLISTIC COMPUTER TEST SETS TO REPLACEABLE SUBASSEMBLIES	67
H25 PERFORM IN-SHOP MAINTENANCE ON ASG-21 CONTROLS	50
H42 PERFORM IN-SHOP ON ASG-21 VOLTAGE REGULATORS	50
F4 CLEAN OR REPLACE LINE REPLACEABLE UNITS(LRU) TEST SET OR BLACK BOX DUST FILTERS	50
E12 MAINTAIN MAINTENANCE DATA RECORDS	50
H17 ISOLATE MALFUNCTIONS ON TCA TEST SETS TO REPLACEABLE SUBASSEMBLIES	50
E24 PREPARE WORK ORDERS	50
H9 ISOLATE MALFUNCTIONS ON ANTENNA TEST SETS TO REPLACEABLE SUBASSEMBLIES	50

APPENDIX B

TASKS COMMONLY PERFORMED BY DAFSC GROUPS

TABLE 1

TASKS PERFORMED BY 321X1E PERSONNEL

TASK	PERCENT MEMBERS PERFORMING
E4 COMPLETE FORMS	77
G16 REMOVE OR REPLACE BALLISTIC COMPUTERS ON B-52H	74
G18 REMOVE OR REPLACE CONTROL INDICATORS ON B-52H	74
G4 PERFORM ASG-21 HYDRAULIC SERVICING	73
G6 PERFORM FAST-OPERATIONAL CHECKOUTS OF ASG-21 DFCS	73
G19 REMOVE OR REPLACE CONTROLLED LINE PLATFORMS (CLP) ON B-52H	73
G41 REMOVE OR REPLACE TRACKING CONTROL ASSEMBLIES (TCA) ON B-52H	73
G23 REMOVE OR REPLACE FREQUENCY CONVERTER TRANSMITTERS (FCT) ON B-52H	73
G24 REMOVE OR REPLACE FREQUENCY SELECTOR CONTROLS (FCS) ON B-52H	73
G15 REMOVE OR REPLACE ANTENNAS ON B-52H	73
F13 REMOVE OR REPLACE ASSOCIATED FCS ELECTRICAL CONNECTORS	73
G2 ISOLATE MALFUNCTIONS ON ASG-21 FCS TO LRUs	71
G39 REMOVE OR REPLACE SYSTEM CONTROL ASSEMBLIES (SCA) ON B-52H	71
F15 REMOVE, REPLACE OR SPLICE FCS ELECTRICAL WIRING	71
F2 BRIEF OR DEBRIEF CREWS	71
G1 ARM OR DISARM M-61 GUNS ON B-52H	69
G5 PERFORM ASG-21 PHASE INSPECTIONS	69
G36 REMOVE OR REPLACE PRESSURIZATION PACKAGES ON B-52H	69
F10 LACE ELECTRICAL WIRING ASSEMBLIES	69
F1 ARM OR DISARM DFCS WEAPONS	67
G27 REMOVE OR REPLACE GUN COVER BOOTS ON B-52H	67

TABLE 2

TASKS PERFORMED BY 321X1G PERSONNEL

TASK	PERCENT MEMBERS PERFORMING
I77 REMOVE OR REPLACE TURRET COWLING OR SIDE ARMS ON B-52D/G	77
I22 PERFORM FAST OPERATIONAL CHECKOUTS ON B-52D/G	77
I23 PERFORM FCS FEO CHECKOUTS ON B-52D/G	76
I18 PERFORM AMMUNITION DEARMING OR UNLOADING PROCEDURES ON B-52D/G	75
F1 ARM OR DISARM DFCS WEAPONS	75
I1 ISOLATE MALFUNCTIONS IN ACQUISITION MODE ON B-52D/G	75
I33 REMOVE OR REPLACE ANTENNAS ON B-52D/G	75
I20 PERFORM COMPLETE OPERATIONAL CHECKOUTS ON B-52D/G	75
I11 ISOLATE MALFUNCTIONS IN RADAR TRACK RADAR RANGE MODE ON B-52D/G	74
I73 REMOVE OR REPLACE TARGET POSITION COMPUTERS ON B-52D/G	74
I15 ISOLATE MALFUNCTIONS IN TRACK RADAR TRACKING CHANNELS ON B-52D/G	74
I8 ISOLATE MALFUNCTIONS IN MANUAL TRACKING MODE ON B-52D/G	74
I33 REMOVE OR REPLACE ANTENNAS ON B-52D/G	74
I10 ISOLATE MALFUNCTIONS IN RADAR RANGING ON B-52D/G	74
I19 PERFORM AMMUNITION LOADING OR ARMING PROCEDURES ON B-52D/G	74
I20 PERFORM COMPLETE OPERATIONAL CHECKOUTS ON B-52D/G	74
I13 ISOLATE MALFUNCTIONS IN SEARCH RADAR TRANSMITTING AND RECEIVER LOOPS ON B-52D/G	74
I4 ISOLATE MALFUNCTIONS IN HYDRAULIC DRIVE SYSTEM ON B-52D/G	74
I7 ISOLATE MALFUNCTIONS IN ON MODE ON B-52D/G	74
I3 ISOLATE MALFUNCTIONS IN EMERGENCY SEARCH MODE ON B-52D/G	74
I2 ISOLATE MALFUNCTIONS IN EMERGENCY MODE ON B-52D/G	74
i12 ISOLATE MALFUNCTIONS IN SEARCH MODE ON B-52D/G	74

TABLE 3

TASKS PERFORMED BY 32151E PERSONNEL

TASK	PERCENT MEMBERS PERFORMING
F15 REMOVE, REPLACE OR SPLICE FCS ELECTRICAL WIRING	87
G2 ISOLATE MALFUNCTIONS ON ASG-21 FCS TO LRUs	84
G4 PERFORM ASG-21 HYDRAULIC SERVICING	84
G21 REMOVE OR REPLACE FCS CONTROLS ON B-52H	84
G41 REMOVE OR REPLACE TRACKING CONTROL ASSEMBLIES (TCA) ON B-52H	84
G24 REMOVE OR REPLACE FREQUENCY SELECTOR CONTROLS (FSC) ON B-52H	84
G6 PERFORM FAST-OPERATIONAL CHECKOUTS OF ASG-21 DFCS	84
G19 REMOVE OR REPLACE CONTROLLED LINE PLATFORMS (CLP) ON B-52H	84
G39 REMOVE OR REPLACE SYSTEM CONTROL ASSEMBLIES (SCA) ON B-52H	84
G15 REMOVE OR REPLACE ANTENNAS ON B-52H	84
G16 REMOVE OR REPLACE BALLISTIC COMPUTERS ON B-52H	84
F13 REMOVE OR REPLACE ASSOCIATED FCS ELECTRICAL CONNECTORS	84
G18 REMOVE OR REPLACE CONTROL INDICATORS ON B-52H	84
F15 REMOVE, REPLACE OR SPLICE FCS ELECTRICAL WIRING	84
F2 BRIEF OR DEBRIEF CREWS	79
G5 PERFORM ASG-21 PHASE INSPECTIONS	79
F10 LACE ELECTRICAL WIRING ASSEMBLIES	79
F3 CONDUCT DFCS CHECKOUTS FOR AIRCRAFT READINESS IN ACCORDANCE WITH AIRCRAFT FORMS	76
E4 COMPLETE FORMS	76
G1 ARM OR DISARM M-61 GUNS ON B-52D/G	76
F3 CONDUCT DFCS CHECKOUTS FOR AIRCRAFT READINESS IN ACCORDANCE WITH AIRCRAFT FORMS	76
F1 ARM OR DISARM DFCS WEAPONS	76
G36 REMOVE OR REPLACE PRESSURIZATION PACKAGES ON B-52H	76
G21 REMOVE OR REPLACE FCS CONTROLS ON B-52H	76
G34 REMOVE OR REPLACE M-61 GUNS ON B-52H	76

TABLE 4

TASKS PERFORMED BY 32171E PERSONNEL

TASK	PERCENT MEMBERS PERFORMING
E4 COMPLETE FORMS	83
D5 DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	79
B1 BRIEF PERSONNEL	79
D2 CONDUCT OJT	75
B4 COUNSEL SUBORDINATES ON PERSONAL OR MILITARY RELATED PROBLEMS	75
F8 INTERPRET TO WIRING OR CIRCUIT DIAGRAMS FOR SUBORDINATES	75
C4 EVALUATE COMPLETED MAINTENANCE ACTIONS	71
C10 EVALUATE MAINTENANCE OF EQUIPMENT OR SUPPLIES	71
B29 SUPERVISE APPRENTICE DEFENSIVE FIRE CONTROL SYSTEMS MECHANICS (AFSC 32130E)	71
A10 PLAN OR SCHEDULE WORK ASSIGNMENTS	71
E18 POST ENTRIES ON EQUIPMENT MAINTENANCE AND RECORD FORMS	71
C22 WRITE AIRMEN PERFORMANCE REPORTS (APR)	71
B32 SUPERVISE DEFENSIVE FIRE CONTROL SYSTEMS SPECIALISTS (AFSC 32150E)	67
B12 DRAFT CORRESPONDENCE	67
B9 DIRECT FLIGHTLINE MAINTENANCE	62
B23 INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES	62
B6 DEVELOP OR MAINTAIN STATUS BOARDS, GRAPHS, OR CHARTS	62
E19 POST ENTRIES ON MAINTENANCE DATA COLLECTION FORMS	62
G9 PERFORM PNEUMATIC SYSTEM LEAK CHECKS ON B-52H	62
A7 ESTABLISH WORK PRIORITIES	62
G1 ARM OR DISARM M-61 GUNS ON B-52H	62
B5 DEVELOP OR IMPROVE WORK METHODS OR PROCEDURES	62
F2 BRIEF OR DEBRIEF CREWS	62

TABLE 5

TASKS PERFORMED BY 32151G PERSONNEL

TASK	PERCENT MEMBERS PERFORMING
I28 PERFORM TRACKING CHANNELS (LOCK-ON) CHECKS OR ADJUSTMENTS ON B-52D/G	87
I23 PERFORM FCS FEO CHECKOUTS ON B-52D/G	87
I22 PERFORM FAST OPERATIONAL CHECKOUTS ON B-52D/G	87
F1 ARM OR DISARM DFCS WEAPONS	84
I20 PERFORM COMPLETE OPERATIONAL CHECKOUTS ON B-52D/G	84
F13 REMOVE OR REPLACE ASSOCIATED FCS ELECTRICAL CONNECTORS	83
I77 REMOVE OR REPLACE TURRET COWLING OR SIDE ARMS ON B-52D/G	83
I73 REMOVE OR REPLACE TARGET POSITION COMPUTERS ON B-52D/G	83
I15 ISOLATE MALFUNCTIONS IN TRACK RADAR TRACKING CHANNELS ON B-52D/G	83
I68 REMOVE OR REPLACE SEARCH PULSE SWEEP GENERATORS (PSG) ON B-52D/G	83
I33 REMOVE OR REPLACE ANTENNAS ON B-52D/G	83
F15 REMOVE, REPLACE OR SPLICE FCS ELECTRICAL WIRING	83
I59 REMOVE OR REPLACE MODULATORS ON B-52D/G	83
I1 ISOLATE MALFUNCTIONS IN ACQUISITION MODE ON B-52D/G	83
I18 PERFORM AMMUNITION DEARMING OR UNLOADING PROCEDURES ON B-52D/G	83
I25 PERFORM INFLIGHT-FIRING PREPARATION CHECKS ON B-52D/G	83
I67 REMOVE OR REPLACE SEARCH FREQUENCY CONVERTER TRANSMITTERS ON B-52D/G	83
I63 REMOVE OR REPLACE RADAR INDICATORS ON B-52D/G	83
I11 ISOLATE MALFUNCTIONS IN RADAR TRACK RADAR RANGE MODE ON B-52D/G	82
I74 REMOVE OR REPLACE TRACK FCTs ON B-52D/G	82
I10 ISOLATE MALFUNCTIONS IN RADAR RANGING ON B-52D/G	82
I69 REMOVE OR REPLACE SERVO CENTRALS ON B-52D/G	82
F2 BRIEF OR DEBRIEF CREWS	82
I38 REMOVE OR REPLACE COMPUTER CENTRALS ON B-52D/G	82
I13 ISOLATE MALFUNCTIONS IN SEARCH RADAR TRANSMITTING AND RECEIVER LOOPS ON B-52D/G	82
I78 REMOVE OR REPLACE .50 CALIBER M-3 GUNS ON B-52D/G	82

TABLE 6
 TASKS PERFORMED BY 32171G PERSONNEL

TASK	PERCENT MEMBERS PERFORMING
E4	82
C22	80
F8	79
D5	76
B4	72
F2	70
B33	70
A10	69
C4	68
B30	68
B1	67
E19	67
I8	65
I15	65
I77	65
F11	65
I1	65
I12	65

TABLE 7

TASKS PERFORMED BY 32192 PERSONNEL

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
B4 COUNSEL SUBORDINATES ON PERSONAL OR MILITARY RELATED PROBLEMS	95
B1 BRIEF PERSONNEL	93
B3 CORRELATE MAINTENANCE REQUIREMENTS WITH OTHER MAINTENANCE ORGANIZATIONS	93
B12 DRAFT CORRESPONDENCE	91
B2 CONDUCT OR PARTICIPATE IN STAFF MEETINGS	91
B23 INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES	88
C22 WRITE AIRMEN PERFORMANCE REPORTS (APR)	88
A1 ASSIGN PERSONNEL TO DUTY POSITIONS	86
C20 RECOMMEND PERSONNEL FOR AWARDS	86
A15 SCHEDULE LEAVES OR PASSES	84
C18 INSPECT FLIGHT LINE OR SHOP FACILITIES	84
C4 EVALUATE COMPLETED MAINTENANCE ACTIONS	81
C10 EVALUATE MAINTENANCE OF EQUIPMENT OR SUPPLIES	81
C7 EVALUATE INSPECTION REPORTS OR PROCEDURES	81
A7 ESTABLISH WORK PRIORITIES	81
B25 PRESENT SUPERVISORY INDOCTRINATION TO NEWLY ASSIGNED PERSONNEL	81
A9 PLAN OR PREPARE BRIEFINGS	79
C6 EVALUATE INDIVIDUALS FOR DEMOTION, PROMOTION OR RECLASSIFICATION	79
A4 ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (OI), OR STANDING OPERATING PROCEDURES (SOP)	77
B18 IMPLEMENT SAFETY PROGRAMS OR PROCEDURES	77
C5 EVALUATE COMPLIANCE WITH WORK STANDARDS	74
E5 CORRECT OR UPDATE REPORTS	74
B5 DEVELOP OR IMPROVE WORK METHODS OR PROCEDURES	74
C17 EVALUATE WORK SCHEDULES	74