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OCCUPATIONAL ANALYSIS PROGRAM AIR FORCE OCCUPATIONAL MEASUREMENT SQUADRON AIR EDUCATION and TRAINING COMMAND 1550 5th STREET EAST RANDOLPH AFB, TEXAS 78150-4449

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PREFACE

This report presents the results of a detailed Air Force Occupational Survey of the In-Flight Refueling Operators career ladder (Air Force Specialty Code (AFSC) 1A0X1, formerly AFSC 112X0). Authority for conducting occupational surveys is contained in AFI 36-2623. Computer products upon which this report is based are available for the use of operations and training officials.

The survey instrument was developed by Captain Robert H. Babin, Inventory Development Specialist, with computer programming support furnished by Ms Olga Velez. Ms Raquel A. Soliz provided administrative support. First Lieutenant Peter M. Berg, Occupational Analyst, analyzed the data and wrote the final report. This report has been reviewed and approved by Major Randall C. Agee, Chief, Airman Analysis Section, Occupational Analysis Flight, Air Force Occupational Measurement Squadron (AFOMS).

Copies of this report are distributed to Air Staff sections, major commands, and other interested training and management personnel. Additional copies are available upon request to the Air Force Occupational Measurement Squadron, Attention: Chief, Occupational Analysis Flight (OMY), 1550 5th Street East, Randolph Air Force Base, Texas 78150-4449 (DSN 487-6623).

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SUMMARY OF RESULTS

- 1. <u>Survey Coverage</u>: The In-Flight Refueling career ladder (AFSC 1A0X1) was surveyed to obtain current job and task data. Survey results are based on data gathered from 549 respondents. This represents 46 percent of the total assigned population.
- 2. <u>Specialty Jobs</u>: Structure analysis of the AFSC 1A0X1 data reflects a very homogeneous job structure. Although nine jobs were identified in the sample, all of the jobs involved performing a common core of in-flight refueling functions. The primary differences among jobs were the performance of additional administrative tasks, such as training, scheduling, program management, and standardization/evaluation-related duties.
- 3. <u>Career Ladder Progression</u>: Personnel at all skill levels perform many aircrew and refueling tasks in common. This is typical of all aircrew specialties. As personnel progress in the specialty, they tend to assume supervisory and other additional tasks, while still continuing to perform routine aircrew and refueling tasks.
- 4. <u>Specialty Descriptions</u>: The current In-Flight Refueling Operators AFMAN 36-2108 specialty job descriptions accurately depict the nature of the respective jobs identified in this study.
- 5. <u>Training Analysis</u>: Comparison of the 1A0X1 STS with occupational survey data identified very few areas needing review.
- 6. <u>Implications</u>: The In-Flight Refueling career ladder structure has remained relatively stable since the last OSR was published in March 1983. The specialty jobs have a common core of technical boom operator tasks performed by most of incumbents. Also, job attitudes are extremely positive among incumbents.

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OCCUPATIONAL SURVEY REPORT (OSR) IN-FLIGHT REFUELING SPECIALIST LADDER AFSC 1A0X1 (Formerly AFSC 112X0)

INTRODUCTION

This is a report of an occupational survey of the In-Flight Refueling Operator career ladder completed by the Air Force Occupational Measurement Squadron. This survey was conducted to obtain current job and task data. The last In-Flight Refueling OSR was published in March 1983.

Background

Since its creation in 1954, the In-Flight Refueling specialty has had a fairly stable history. With the exception of changes in the numeric designation of the career ladder, the In-Flight Refueling specialty has remained fairly stable. Currently, the career ladder is undergoing a downsizing, forcing some changes in mission objectives that will be explained in later paragraphs.

Personnel assigned to the In-Flight Refueling Operator career ladder are assigned primarily to Air Mobility Command (AMC), and most are qualified in the KC-135R aircraft. The in-flight refueling operator's primary job is assisting the pilot in conducting air refueling. Consequently, the in-flight refueling operator, commonly referred to as the "boom operator," visually or verbally directs the receiver aircraft into the refueling envelope and then uses the boom or the drogue to conduct refueling. Additionally, the boom operator serves as loadmaster when the aircraft is carrying cargo or passengers.

In-Flight refueling operators check forms for equipment status; perform visual and operational checks of air refueling systems and equipment; and perform preflight, thru flight, and postflight inspections. In-flight refuelers also monitor the control panel for proper operation of equipment and perform emergency operations. In-flight refueling operators ascertain fuel, personnel, cargo, and emergency and special equipment weight and distribution for computing aircraft weight and balance. They ensure the aircraft is properly loaded within safe operating limits, and they complete weight and balance forms for the flight, using the load adjuster and loading graphs. Further responsibilities include jumpmaster duties and instruction of passengers in the use of emergency equipment and emergency procedures.

Prospective AFSC 1A0X1 personnel progress through two courses which include three phases of initial skills training. The first phase is the 20-day Enlisted Aviation Undergraduate Course (EAUC). This course covers general aircrew duties. The purpose of the course is early

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evaluation of individual abilities to handle the required flying. After EAUC, personnel enter water and land survival courses taught at Fairchild AFB WA. Upon completion of survival training, airmen proceed to the 398th Operations Support Squadron, Combat Crew Training School (CCTS) at Castle AFB CA. Since Castle AFB is closing October 1995, all CCTS training is being moved to Altus AFB OK (move completion date is March 1995). At CCTS, there are two phases: academic and flightline. Academic training, including simulators, lasts 32 training days. After academic training, personnel go on to the flightline training phase for 40 training days. This is the students' first opportunity to train in actual aircraft. Due to the current overmanning in the career field (approximately 103 percent overmanned), only 65 students are projected to graduate from CCTS in FY94. The majority of these students will be National Guard and Reserve personnel, who will return to their respective Guard or Reserve unit upon completion of the training program. The remainder of the students will come from Basic Military Training School (BMTS) (approximately 20 airman). From CCTS, the incumbent AFSC 1A0X1 personnel go to their respective assignments, where their training is continued by the Boom Operator-Instructors in formal Enlisted Specialty Training (EST).

SURVEY METHODOLOGY

<u>Inventory Development</u>

The data collection instrument for this occupational survey was Air Force Job Inventory (JI) AFPT 90-112-980, dated May 1992. A tentative task list was prepared after reviewing pertinent career ladder publications and directives, tasks from the previous survey instrument, and data from the last OSR. The preliminary task list was refined and validated through personal interviews with 30 subject-matter experts (SMEs) at the following operational bases:

BASE REASON FOR VISIT

Castle AFB CA KC-135 Resident School

Dyess AFB TX Representative operational base

Barksdale AFB LA KC-10 resident school and operational base

The resulting JI contained a comprehensive listing of 240 tasks grouped under 8 duty headings and a background section requesting such information as grade, duty title, aircraft qualifications currently held, and average number of days per month spent TDY.

Survey Administration

From 1 September 1992 to 4 March 1993, Military Personnel Flights (MPF) at operational bases worldwide administered the inventory to 705 eligible AFSC 1A0X1 personnel. Members eligible for the survey included all assigned AFSC 1A0X1 personnel except these: One in hospital status, two transitioning in PCS status, three projecting retirement within 6 months, or four in their current positions for less than 6 weeks. Job incumbents were selected from a computer-generated mailing list obtained from personnel data tapes obtained from the Air Force Military Personnel Center, Randolph Air Force Base TX.

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

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

Survey Sample

Personnel were selected to participate in this survey so as to ensure an accurate representation across military paygrade groups and major commands. Ninety-seven percent of eligible AFSC 1A0X1 personnel were mailed survey booklets. Seven hundred and five booklets were returned, and 549 survey booklets were acceptable. The 549 respondents in the final sample represent 46 percent of the total assigned personnel and account for 56 percent of the eligible personnel surveyed. Table 1 reflects the MAJCOM distribution for these AFSC 1A0X1 personnel. Table 2 displays the paygrade distribution of the sample. As reflected in these tables, the survey sample is closely representative of the career ladder population.

Task Factor Administration

Job descriptions alone do not provide sufficient data for making decisions about career ladder documents or training programs. Task factor information is needed for a complete analysis of the career ladder. To obtain the needed task factor data, selected senior AFSC 1A0X1 personnel (generally E-6 or E-7 technicians) also completed a training emphasis (TE) or task difficulty (TD) booklet. These booklets were processed separately from the JIs, and TE and TD data, where applicable, were considered when analyzing other issues in the study.

TABLE 1

MAJCOM REPRESENTATION IN SAMPLE

COMMAND	PERCENT OF ASSIGNED	PERCENT OF SAMPLE
USAFE	2	2
PACAF	3	4
ACC	22	22
AMC	7 2	71
Other	1	1

Total Assigned = 1,185

Total Surveyed = 980

Total in Sample = 549

Percent of Assigned in Sample = 46%

Percent of Surveyed in Sample = 83%

TABLE 2
PAYGRADE DISTRIBUTION OF SAMPLE

PAYGRADE	PERCENT OF ASSIGNED	PERCENT OF SAMPLE
E-1 to E-3	11	14
E-4	27	24
E-5	22	23
E-6	17	16

Training Emphasis (TE)

TE is defined as the amount of structured training first-enlistment personnel need to perform tasks successfully. Structured training provided by resident technical schools, field training detachments (FTD), mobile training teams (MTT), formal OJT, or any other organized training method. Forty-two experienced AFSC 1A071 NCOs rated the tasks in the inventory using a 10-point scale ranging from 0 (no training required) to 9 (extremely high TE). Interrater agreement for these 42 raters was acceptable. The average TE rating is 3.50, with a standard deviation of 2.52. Any task with a TE rating of 5.76 or greater is considered to have a high TE.

Task Difficulty (TD)

TD is defined as an estimate of the length of time the average airman takes to learn how to perform a task. Thirty-four experienced NCOs rated the difficulty of the tasks on a 9-point scale ranging from 1 (easy to learn) to 9 (very difficult to learn). Interrater agreement was again acceptable. TD ratings are normally adjusted so tasks of average difficulty have a value of 5.0, with a standard deviation of 1.0. Thus, any task with a TD rating of 6.0 or above is considered difficult to learn.

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

SPECIALTY JOBS (Career Ladder Structure)

An Air Force Occupational Analysis begins with an examination of the career ladder structure. The structure of jobs within the In-Flight Refueling career ladder was examined on the basis of similarity of tasks performed, and the percent of time spent ratings provided by job incumbents, independent of other specialty background factors.

For the purpose of identifying the job structure, an automated job clustering program is used. This hierarchical grouping program is a basic part of the Comprehensive Occupational Data Analysis Program (CODAP)system for job analysis. Each individual job description (all the tasks performed by that individual and the relative amount of time spent on those tasks) is compared to every other job description in the sample. The automated system is designed to locate the two job descriptions with the most similar tasks and percent time ratings and combine them to form a composite job description. In successive stages, new members are added to initial groups, or new groups are formed based on the similarity of tasks performed and similar time ratings in the individual job descriptions.

The basic identifying group used in the hierarchical job structuring process is the <u>Job</u>. When there is a substantial degree of similarity between Jobs, they are grouped together and identified as a <u>Cluster</u>. When there are variations in the combinations of tasks and time by sample respondents, some number of different jobs are identified. The resulting job structure information (these varying jobs within the career ladder) can be used to evaluate the accuracy of career ladder documents (AFMAN 36-2108 Specialty Descriptions, the Career Field Education and Training Plan (CFETP), and the Specialty Training Standard (STS)), and to gain a better understanding of current utilization patterns. The above terminology will be used in the discussion of the AFSC 1AOX1 career ladder structure.

Overview of Specialty Jobs

Structure analysis identified one cluster and eight jobs within the survey sample. Based on task similarity and relative time spent, the division of jobs performed by AFSC 1A0X1 personnel is illustrated in Figure 1, and a listing of those jobs is provided below. The high degree of homogeneity within this ladder is clearly shown by this figure. The scale (ST) number shown beside each title is a reference to computer-printed information; the number of personnel in each stage (N) is also shown.

- I. IN-FLIGHT REFUELER JOB (ST0063, N=303)
- II. BOOM OPERATOR-INSTRUCTOR/EVALUATOR CLUSTER (ST0061, N=135)
 - 1. Boom Operator-Instructor Job
 - 2. Unit Evaluator Job
- III. FLIGHT MISSION SCHEDULER JOB (ST0069, N=7)
- IV. COMMAND EVALUATOR JOB (ST0077, N=8)
- V. COMBAT CREW TRAINING SCHOOL FLIGHT INSTRUCTOR JOB (ST0075, N=9)
- VI. GROUND SCHEDULING JOB (ST0054, N=5)
- VII. FLIGHT CHIEF JOB (ST0047, N=6)
- VIII. IN-FLIGHT REFUELING PROGRAM MANAGER JOB (ST0030, N=21)
 - IX. SENIOR PROGRAM MANAGER JOB (ST0020, N=6)

AFSC 1A0X1 (FORMERLY AFSC 112X0) CAREER LADDER JOBS

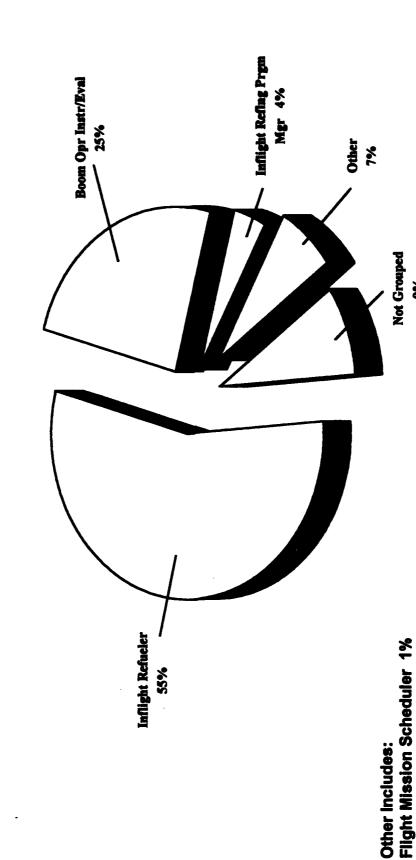


FIGURE 1

%

Senior Program Manager 1%

Command Evaluator 1% CCTS Flight Instructor 2% Ground Scheduling 1% Flight Chiefs 1%

The above jobs account for 91 percent of the sample. The remaining 9 percent did not group with any independent job due to either the unique job they performed or the manner in which they perceived their jobs. Some of the unique titles of respondents who did not group were Chief AFMC Boom Operator, KC-10 Planner, and AFFTC Enlisted Aircrew Manager.

Group Descriptions

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

I. <u>IN-FLIGHT</u> <u>REFUELER JOB</u> (ST0063). Three hundred and three airmen perform this job (55 percent of the sample). Their job consists of operating the refueling boom during air to air refueling and performing common aircrew and loadmaster duties. This is the core work of the ladder. Members refuel aircraft, secure cargo, load crew gear on aircraft, and monitor engine instruments. Most of the job time of In-Flight Refuelers (35 percent) is spent performing common aircrew tasks. Typical tasks which members perform include:

direct receiver aircraft into refueling position using pilot director lights refuel receiver aircraft with boom refueling normal systems perform EMCON option-1 and 2 air refueling direct passengers loading and unloading open or close crew entrance doors monitor radio communications

Personnel perform an average of 105 tasks. Eighty percent of the In-Flight Refuelers hold a 5-skill level or less, and 36 percent are in their first enlistment. By far the most common aircraft that members are currently qualified in is the KC-135R.

II. <u>BOOM</u> <u>OPERATOR-INSTRUCTOR/EVALUATOR</u> <u>CLUSTER</u> (<u>ST0061</u>). There are 135 personnel in this cluster representing 23 percent of the ladder. The career Boom Operator-Instructor/Evaluator cluster includes the responsibilities of training members in refueling, aircrew, and loadmaster tasks. They also evaluate instructors, standardization programs, and inspection reports. Boom Operator-Instructors/Evaluators spend 11 percent of their time on training-related tasks. Typical training-oriented tasks performed by the boom operator-instructor job are:

TABLE 3

AVERAGE PERCENT TIME SPENT ON DUTIES BY CAREER LADDER JOBS**

		SENIOR PROGRAM	IN-FLIGHT REFUELING PROGRAM	FLIGHT	GROUND
20	DUTIES	(STG 20)	(STG 30)	(STG 47)	(STG 54)
⋖	ORGANIZING AND PLANNING	16	10	7	1
æ	DIRECTING AND IMPLEMENTING	17	12	6	4
၁	INSPECTING AND EVALUATING	6	7	æ	yana .
Ω	TRAINING	6	19	7	7
田	PERFORMING COMMON AIRCREW TASKS	17	19	22	34
ţ <u>r</u> ,	PERFORMING PREFLIGHT AND POSTFLIGHT FUNCTIONS	7	v s	9	=
Ö	PERFORMING IN-FLIGHT AIR REFUELING AND CRUISING FUNCTIONS	16	17	21	53
H	PERFORMING LOADMASTER FUNCTIONS	Ø.	10	22	ø

Denotes less than 1 percent
 Columns may not add up to 100 percent due to rounding

TABLE 3 (CONTINUED)

AVERAGE PERCENT TIME SPENT ON DUTIES BY CAREER LADDER JOBS**

		BOOM OPERATOR- INSTRUCTOR/ EVALUATOR	IN-FLIGHT REFUELER	FLIGHT MISSION SCHEDULER	CCTS FLIGHT INSTRUCTOR	COMMAND
되	DUTIES	(STG 61)	(STG 63)	(STG 69)	(STG 75)	(STG 77)
⋖	ORGANIZING AND PLANNING	٧٠	-	6	7	m
m	DIRECTING AND IMPLEMENTING	vo	1	10	4	4
ပ	INSPECTING AND EVALUATING	m	•	m		60
Ω	TRAINING	11	7	v o	91	9
ш	PERFORMING COMMON AIRCREW TASKS	27	35	30	30	30
(<u>.</u>	PERFORMING PREFLIGHT AND POSTFLIGHT FUNCTIONS	10	12	10	=	&
Ö	PERFORMING IN-FLIGHT AIR REFUELING AND CRUISING FUNCTIONS	23	31	. 50	27	78
H	PERFORMING LOADMASTER FUNCTIONS	16	92	60	••	12

^{*} Denotes less than 1 percent

** Columns may not add up to 100 percent due to rounding

TABLE 4

SELECTED BACKGROUND DATA FOR AFSC 1A0X1 CAREER LADDER JOBS

DUTIES	SENIOR PROGRAM MANAGER (STG 20)	IN-FLIGHT REFUELING PROGRAM MANAGER (STG 30)	FLIGHT CHIEF (STG 47)	GROUND SCHEDULING (STG 54)
NUMBER IN GROUP PERCENT OF SAMPLE	9%	21	9 %	\$ %
DAFSC DISTRIBUTION: 1A031	%0	%0	%0	%0
1A051	%0	10%	17%	20%
1A071	17%	62%	20%	%0 %
14091	20%	19%	33%	%0
1A000	33%	10%	%	% 0
PAYGRADE DISTRIBUTION:				
E-1-E-3	%0	%0	%0	%
E4	%0	10%	%	40%
E-5	%0	19%	%	20%
E-6	%0	10%	33%	50%
E-7	17%	43%	20%	%0
AVERAGE NUMBER OF TASKS PERFORMED	134	155	116	%
AVERAGE MONTHS TAFMS	241	195	216	159
PERCENT IN FIRST ENLISTMENT	%0	%0	%0	%
PERCENT SUPERVISING	34%	64%	\$1%	20%

TABLE 4 (CONTINUED)

SELECTED BACKGROUND DATA FOR 1A0X1 CAREER LADDER JOBS

DUTIES	BOOM OPERATOR- INSTRUCTOR/ EVALUATOR (STG 61)	IN-FLIGHT REFUELER (STG 63)	FLIGHT MISSION SCHEDULER (STG 69)	CCTS FLIGHT INSTRUCTOR (STG 75)	COMMAND EVALUATOR (STG 77)
NUMBER IN GROUP	135	303	7	6 %	ဆ <u>ဇ</u> ိ
PERCENT OF SAMPLE	%57)2%	1%	0,7	1%
DAFSC DISTRIBUTION:	Ì		•	è	•
1 A 031	3%	14%	%	% 0	\$
1 A 051	20%	%09	%0	22%	13%
1A071	63%	79%	71%	78%	75%
14091	13%	1%	14%	%	%
14000	4%	%0	14%	%0	13%
PAYGRADE DISTRIBUTION:					
E-1-E-3	%0	25%	%0	%0	%0
E-4	16%	30%	%0	13%	13%
E-5	23%	76%	%0	33%	13%
E-6	19%	14%	79%	33%	13%
E-7	33%	2%	43%	11%	%05
AVERAGE NUMBER OF TASKS PERFORMED	143	105	611	108	115
AVERAGE MONTHS TAFMS	169	91	198	131	187
PERCENT IN FIRST ENLISTMENT	%1	36%	%0	%0	%0
PERCENT SUPERVISING	36%	4%	%09	33%	13%

evaluate new systems developments, such as boom, drogue, or receiver equipment evaluate trainees, other than resident course students determine resident course training requirements conduct receiver category training administer proficiency checks write training reports

The average Boom Operator-Instructor/Evaluator TAFMS is 168.5 months. Thirty-three percent of the personnel in this cluster have the 7-skill level. The Boom Operator-Instructors/Evaluators are assigned to either the KC-10 or the KC-135 airframe. Although the two in-flight refueling systems are entirely different, the tasks performed in the cluster are very similar.

Two jobs were identified within this cluster. The first job is the Boom-Operator-Instructor job. Like the In-Flight Refueler job, members in the Boom Operator-Instructor job perform aircrew, refueling, and loadmaster duties. When trainees are not flying a given mission, the Boom Operator-Instructors perform the same tasks found in the In-Flight Refueler job. However, when trainees are flying a mission, the role of the Boom Operator-Instructor job changes. The emphasis becomes more focused on training than on in-flight refueling.

In the KC-135, this job occurs at the wing and unit level. At the wing level, the job involves administration of initial in-flight refueling academics and training. This training immediately follows BMTS and is conducted at CCTS (Castle AFB CA). At the unit level, the job entails providing supplemental in-flight refueler training. An example of this is when In-Flight Refuelers are trained by Boom Operator-Instructors to refuel different types of fighter aircraft.

In the KC-10, all of the training occurs at the unit level. All KC-10 In-Flight Refuelers are required to be KC-135 In-Flight Refuelers first; the initial training has already occurred at CCTS. All academics and flightline time are completed at the unit assigned.

The second job in this cluster, Unit Evaluator, involves evaluating trainee performance and various programs and methods used across the career ladder. The primary focus of this job, unlike all of the other jobs in this career ladder, is not performing common aircrew functions. The duty to which they devote the greatest average amount of time is training, then followed by common aircrew tasks. The Unit Evaluator job consists of troubleshooting aircraft malfunctions, evaluating compliance with performance standards, and directing or implementing local training programs.

III. FLIGHT MISSION SCHEDULER JOB (ST0069). There are seven incumbents in this staff job, representing about 1 percent of the career ladder. The job consists of scheduling in-flight refueling missions and performing common aircrew and in-flight refueling tasks. The duties that distinguish the Flight Mission Scheduler are administrative in nature; the Scheduler job involves planning flight schedules, writing correspondence, and conducting staff meetings. The job is not involved with typical training tasks, such as conducting proficiency training or writing training reports. Also, the major purpose of the flight time spent in this job is to retain currency, which takes about 12 sorties per semester (about 50 hours of flight time). Typical Flight Mission Scheduler tasks include:

coordinate operational work activities with other sections compile information for reports or staff studies conduct staff meetings plan flight schedules write correspondence plan briefings

Supervision of subordinates is more prevalent with the Flight Mission Scheduler job; 43 percent of incumbents report that they supervise five subordinates or less. Seventy-two percent of the incumbents are in paygrades E-6 and E-7. Seventy-one percent of the incumbents have a time in service of 16 years or greater.

IV. <u>COMMAND EVALUATOR JOB (ST0077)</u>. The eight members in this job represent about 2 percent of the career ladder. The Command Evaluator job is responsible for standardization/evaluation duties and aircrew/refueling duties. The Command Evaluator job is a higher headquarters function, charged with evaluating Unit Evaluators and with reviewing entire unit standardization/evaluation programs. Roughly, two-thirds of the refueling missions that include the Command Evaluator job are missions where the Evaluator performs as an In-Flight Refueler. When an incumbent is being evaluated on a mission, the Command Evaluator observes and records information on the crew member's proficiency in checklist procedures, mission planning, etc. When evaluating a unit standardization/evaluation program, the Command Evaluator reviews training reports, stan/eval folders, and unit-level evaluators in actual in-flight refueling missions. Typical Command Evaluator tasks include:

establish organizational policies, office instructions (OIs), or standard operating procedures (SOPs) evaluate standardization programs plan standardization programs administer proficiency checks administer recurrency checks evaluate instructors

Personnel in the Command Evaluator job spend 8 percent of their time performing, inspecting, and evaluating duties. Personnel become Evaluators by first being upgraded to Boom Operator-Instructor. They are then appointed to the Command Evaluator job by their supervisors. Incumbents perform an average of 115 tasks. Incumbents were evenly split between ACC and AMC, and seven out of eight Evaluators supervise no one.

V. <u>COMBAT CREW TRAINING SCHOOL (CCTS) FLIGHT INSTRUCTOR JOB</u> (ST0075). There are nine incumbents in this job representing about 2 percent of the specialty. The job involves training AFSC 1A0X1 personnel in the basic in-flight refueling academics and flightline procedures for the KC-135. The job includes teaching systems classes, training personnel in the air, and supervising incumbents. In the air, the CCTS Flight Instructor job is carried out in an on-the-job training format, allowing for more student-Flight Instructor interaction. The only major differences between this and the In-Flight Refueler job are the in-flight training and the supervision responsibilities. Typical tasks in this job include:

perform ground training, such as cargo loading or life support systems and equipment conduct resident course flight instruction counsel trainees on training progress maintain training records plan resident training administer tests

Again, incumbents spend most of their time on common aircrew and in-flight refueling tasks. Sixteen percent of their time is spent on training, administering tests, conducting resident in-flight refueling training, and planning resident training. Incumbents perform an average of 108 tasks. The predominant paygrades are E-5 and E-6, and the average time in service is 131 months.

VI. GROUND SCHEDULING JOB (ST0054). There are five members in the Ground Scheduling job, representing about 1 percent of the career ladder. Incumbents plan briefings, develop work methods or procedures, and determine work priorities in the aircrew ground training environment. Aircrew ground training consists of systems classes, bailout training, and miscellaneous training. While the job still includes flying, members have responsibility for many more administrative and planning duties than the average In-Flight Refueler. Members of this job primarily fly to maintain currency. Representative tasks include:

coordinate operational work activities with other sections supervired In-Flight Refueling Operators (AFSC 1A051) refuel receiver aircraft with drogue develop work methods or procedures conduct receiver category training write correspondence

Ground Schedulers spend about 7 percent of their time involved in organizing and planning duties. Personnel perform an average of 96 tasks. Sixty percent of the incumbents have 4 to 8 years' time in service, and all five Ground Schedulers are assigned to AMC.

VII. FLIGHT CHIEF JOB (ST0047). There are six incumbents in this job, representing about 1 percent of the career ladder. The Flight Chief job is responsible for common aircrew, refueling, and loadmaster duties during KC-10 in-flight refueling missions. The Flight Chief job is very similar to the In-Flight Refueling job, with an emphasis on loadmaster duties while accomplishing the mission. There is also a significant supervisory role in this job. The Flight Chief job is filled by the senior enlisted member in the flight, and is responsible for overseeing training for the flight members and for writing their EPRs. While the In-Flight Refuelers assigned to the KC-135 series work for the aircraft commander (the AC commander writes the EPRs), the In-Flight Refuelers assigned to the KC-10 series work for the Flight Chief. It is also desirable (but not required) for the Flight Chief to be instructor qualified. This increases the overall effectiveness of the supervisory aspect of the job. Representative tasks include:

supervise In-Flight Refueling Operators/Technicians (AFSC 1A071)
marshal vehicles inside aircraft
inspect cargo for air transport
position loaders or elevators
determine work priorities
brief load team personnel

Sixty-seven percent of the incumbents are in ACC, with the remainder split evenly between PACAF and AMC. Flight Chiefs supervise from 5 to 7 subordinates and perform an average of 116 tasks. All of the Flight Chiefs have at least 12 years time in service.

VIII. <u>IN-FLIGHT REFUELING PROGRAM MANAGER JOB (ST0030)</u>. Four percent of the sample (21 members) hold this job. All aircraft modifications are reviewed by personnel with the In-Flight Refueling Program Manager job. They act as SMEs to provide expertise to the aircraft engineers and contractors on how operational requirements interface with

operational limitations. The duties of the job are administrative in nature, as Program Managers draft budgets, implement quality control programs, and write staff studies and surveys. Tasks common to this job are:

establish organizational policies, office instructions (OIs), or standard operating procedures (SOPs) interpret policies, directives, or procedures for subordinates participate in general or specialized mission briefings perform load planning for cargo or passenger missions write correspondence

Over 80 percent of the incumbents are in paygrade E-8 or higher. Two-thirds are located in AMC, and the remainder are assigned to ACC. Members in the In-Flight Refueling Program Manager job fly to remain current and to participate in test missions.

IX. <u>SENIOR PROGRAM MANAGER JOB (ST0020)</u> There are six incumbents in this job, representing about 1 percent of the sample. The job consists of writing staff studies and general management-oriented tasks. Also, Senior Program Managers implement quality control programs and evaluate new system developments. The tasks performed in this job are very similar to the tasks performed by the In-Flight Refueling Program Manager job. Supervision of subordinates is not normally part of this job. The Senior Program Manager performs common aircrew and In-Flight refueling tasks to maintain proficiency. Typical tasks include:

establish organizational policies, office instructions (OIs), or standard operating procedures (SOPs) interpret policies, directives, or procedures for subordinates develop cost reduction programs direct utilization of personnel determine work priorities write correspondence

The average TAFMS of the incumbents in this job is 241 months. Two-thirds of the Senior Program Managers are assigned to AMC, with one-third of the personnel assigned to ACC.

Comparison of Current Job Descriptions to Previous Survey Findings

The results of the specialty job analysis were compared to those of OSR AFPT 90-112-454, In-Flight Refueling career ladder, dated March 1983. After reviewing the tasks comprising the jobs identified in 1983, most of the jobs could be matched to similar jobs in the previous study, as shown in Table 5. There is one job from the previous study that did not match any jobs on the current study. This is the Alert Force Manager. The Alert Force Manager may not have broken into a distinct job group because of the current deemphasizing of alert. There are also two current jobs not in the previous study. They are the Ground Scheduling job and the Flight Chief job. Both have become more distinct probably due to changing mission requirements.

ANALYSIS OF DAFSC GROUPS

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

The distribution of skill-level groups across the career ladder jobs is displayed in Table 6, while Table 7 offers another perspective by displaying the relative percent time spent on each duty across the skill-level groups. Both the In-Flight Refueler job and the Ground Scheduling job is best represented by AFSC 1A051, as 54 percent of the In-Flight Refuelers and 60 percent of Ground Schedulers are AFSC 1A051. The Boom Operator-Instructor/Evaluator job, Flight Mission Scheduler job, Command Evaluator job, CCTS Flight Instructor job, Flight Chief job, and the In-Flight Refueling Program Manager job are all well represented in AFSC 1A071. The Senior Program Manager job is most prevalent amongst AFSC 1A091, with 50 percent of the incumbents having the 9-skill level.

A typical pattern of progression is present, with personnel spending slightly more of their relative time on duties involving supervisory, managerial, and training tasks as they move upward toward the 7-skill level. An example of this can be found in the average tasks performed by each job. The highest concentration of 3- and 5- skill level incumbents is found in the In-Flight Refueler and the Ground Scheduler jobs. These two jobs also have the lowest average number of tasks performed of all the jobs. On the whole, this helps show that the average number of tasks increases in the jobs as the skill level increases. It is also obvious, though, that all personnel (even senior enlisted leadership) are still involved with technical task performance, as will be pointed out in the specific skill-level group discussions below.

TABLE 5

SPECIAL TY JOB COMPARISONS BETWEEN CURRENT AND 1983 SURVEYS

PECURRENT SURVEY (N=549)	PERCENT OF SAMPLE	1A0X1/112X0 1983 SURVEY (N=765)	PERCENT OF SAMPLE
IN-FLIGHT REFUELER	\$\$	LINE BOOM OPERATOR	42
BOOM OPERATOR/INSTRUCTOR-EVALUATOR CLUSTER	25	INSTRUCTOR BOOM OPERATOR STANDARDIZATIONEVALUATION INSTRUCTOR BOOM OPERATOR	22 02
FLIGHT MISSION SCHEDULER	1	TANKER SCHEDULING MANAGER	
COMMAND EVALUATOR	-	COMBAT EVALUATION GROUP FLIGHT EXAMINER BOOM OPERATOR	-
CCTS FLIGHT INSTRUCTOR	7	CCTS FLIGHT INSTRUCTOR BOOM OPERATOR	v
		CCTS ACADEMIC INSTRUCTOR BOOM OPERATOR BOOM OPERATOR PART TASK TRAINER CENTRAL FLIGHT INSTRUCTOR COURSE INSTRUCTOR	
GROUND SCHEDULING	-	1	
FLIGHT CHIEF		1	
IN-FLIGHT REFUELING PROGRAM MANAGER	4	UNIT IN-FLIGHT REFUELING PROGRAM	8
SENIOR PROGRAM MANAGER	-	ALERT FORCE MANAGER	e
1 1		NO JOB TITLE, OR JOB TITLE NOT LISTED	•

- Indicates no match in report

TABLE 6

DISTRIBUTION OF SKILL-LEVEL MEMBERS ACROSS CAREER LADDER JOBS (PERCENT)

		,	AFSC		
JÓB	1A031 (N=43)	1A031 1A051 1A071 (N=43) (N=232) (N=277)	l .	1A091 1A000 (N=32) (N=15)	1A000 (N=15)
IN-FLIGHT REFUELER	95	78	34	•	•
BOOM OPERATOR-INSTRUCTOR/ EVALUATOR	0	=	37	S 6	33
FLIGHT MISSION SCHEDULER	0	0	7	ю	9
COMMAND EVALUATOR	0	*	7	0	9
CCTS FLIGHT INSTRUCTOR	0	,	ю	0	0
GROUND SCHEDULER	0	*	1	0	0
FLIGHT CHIEF	0	*		9	0
IN-FLIGHT REFUELING PROGRAM MANAGER	0	-	ς.	12	13
SENIOR PROGRAM MANAGER	0	0	0	9,	70

* Denotes less than 1 percent

TABLE 7

TIME SPENT ON DUTIES BY MEMBERS OF SKILL-LEVEL GROUPS (RELATIVE PERCENT OF JOB TIME)**

			AFSC	ည္က	
DG	DÚTTES	1A031 (N=43)	1A051 (N=232)	1A031 1A051 1A071 1A091 (N=43) (N=232) (N=277) (N=32)	1A091 (N=32)
⋖	ORGANIZING AND PLANNING	*	ĸ	σ	σ
B	DIRECTING AND IMPLEMENTING	*	-	\$	••
ပ	INSPECTING AND EVALUATING	•	*	7	\$
Q	TRAINING	*	-	4	••
Ш	PERFORMING COMMON AIRCREW TASKS	38	34	53	25
Ĭ.	PERFORMING PREFLIGHT AND POSTFLIGHT FUNCTIONS	13	12	10	6
Ö	PERFORMING IN-FLIGHT AIR REFUELING AND CRUISING FUNCTIONS	33	31	25	23
Ħ	PERFORMING LOADMASTER FUNCTIONS	15	11	16	13

^{*} Denotes less than 1 percent

** Columns may not add up to 100 percent due to rounding

Skill-Level Descriptions

<u>DAFSC 1A031</u>. The 30 airmen reporting holding the 3-skill level (representing 5 percent of the survey sample) performed an average of 98 tasks. Since most of the 3-skill level personnel are in the In-Flight Refueler job, most of their duty time is spent performing common aircrew, in-flight air refueling, and cruising tasks (see Table 6 for all jobs performed by the different DAFSCs). Tasks involving loadmaster duties accounted for an additional 15 percent of their duty time, while performing preflight and postflight duties took another 13 percent of their time. Table 8 displays representative tasks performed by the highest percentages of these airmen. The bulk of these tasks deal with refueling aircraft, monitoring the engine instruments, and securing cargo.

<u>DAFSC 1A051</u>. Five-skill level personnel (42 percent of the survey sample) perform many tasks in common with the 3-skill level personnel. The scope of the job performed by these airmen is slightly greater than that of the 3-skill level group (106 tasks versus an average of only 98 tasks, respectively), and 5-skill level members are represented in all but 3 of the 9 specialty jobs (see Table 6). The 5-skill levels are predominantly In-Flight Refuelers and Boom Operator-Instructor/Evaluators. Members spend 30 percent of their time on aircrew tasks, 30 percent on in-flight refueling duties, and roughly half that time on both loadmaster and preflight/postflight functions. Managerial duties are a small part of the job for 5-skill level members (6 percent). As shown in Table 9, the majority of the tasks performed by journeymen deal with in-flight tasks. Table 10 displays those tasks which reflect differences between the apprentice and journeyman groups. The 5-skill levels perform all the tasks performed by the 3-levels, plus more training and slightly more supervisory-oriented tasks (see Table 10).

<u>DAFSC 1A071</u>. Representing 41 percent of the survey sample, these 227 NCOs perform an average of 120 tasks. Members spend 80 percent of their time performing the core in-flight refueler functions (common aircrew tasks, in-flight refueling, loadmaster duties, and preflight/postflight functions). Table 11 displays representative tasks performed by AFSC 1A071 personnel. In comparison to the 3- and 5-skill level respondents, more of the craftsman's time is spent on supervisory, training, and managerial duties (see Table 12).

<u>DAFSC 1A091/1A000</u>. The 47 NCOs in the 9-skill and CEM-levels perform an average of 137 tasks. While the 9-skill level personnel and CEMs still spend a majority of their time performing common aircrew and in-flight refueling tasks, their main task emphasis outside of flight duties is managerial in nature. They perform training, directing, and organizing tasks (see Tables 13 and 14). These incumbents are the directors and managers of the In-Flight Refueling Operator career field, directing training programs, supervising and evaluating incumbents, and managing workload requirements. The highest concentration of E-8s and E-9s is found in the Boom Operator-Instructor/Evaluator. CEM tasks are displayed in Table 15, and tasks that best differentiate between 1A091 and 1A000 are displayed in Table 16.

TABLE 8

REPRESENTATIVE TASKS PERFORMED BY AFSC 1A031 PERSONNEL

		PERCENT MEMBERS PERFORMING
TASKS	<u>'</u>	(N=43)
G211	REFUEL RECEIVER AIRCRAFT WITH BOOM REFUELING NORMAL SYSTEMS	100
G184	DIRECT RECEIVER AIRCRAFT INTO REFUELING POSITION USING PILOT DIRECTOR LIGHTS	100
E125	LOAD CREW GEAR ON AIRCRAFT	100
G198	PERFORM NORMAL IN-FLIGHT CHECKLISTS, OTHER THAN AIR REFUELING	100
E127	MONITOR RADIO COMMUNICATIONS	100
G185	INFORM PILOTS OF REFUELING OPERATION STATUS	100
G195	PERFORM EMCON OPTION-2 AIR REFUELING	100
E128	OPEN OR CLOSE CREW ENTRANCE DOORS	100
E138	PARTICIPATE IN GENERAL OR SPECIALIZED MISSION BRIEFINGS	100
E124	INSTRUCT CREW MEMBERS OR PASSENGERS ON IN-FLIGHT OR GROUND EMERGENCY PROCEDURES	100
G205	PERFORM POSTBOOM AIR REFUELING CHECKLIST PROCEDURES	98
E129	OPERATE AIRCRAFT RADIOS, SUCH AS INTERCOM, INTERPHONE, AFSATCOM, OR VHF	98
E153	STUDY TOS FOR ABNORMAL, EMERGENCY GROUND, OR IN-FLIGHT PROCEDURES	98
	PARTICIPATE IN CREW OPERATION DEBRIEFINGS	98
E134	ORDER AIRCREW FLIGHT LUNCHES	98
F173	PERFORM SEXTANT PREFLIGHT CHECKS	98
G194	PERFORM EMISSION CONTROL (EMCON) OPTION-1 AIR REFUELING	98
G204	PERFORM OR PRACTICE TANKER AIR REFUELING BREAKAWAY PROCEDURES	98
E130	OPERATE EMERGENCY ESCAPE HATCHES	98
G189	MONITOR FUEL PANELS	95
G188	MONITOR FLIGHT INSTRUMENTS	95 05
G208	PERFORM PREPARATION FOR CONTACT CHECKLIST PROCEDURES FOR NORMAL BOOM AIR REFUELING	
F175	POSITION PROFESSIONAL EQUIPMENT AT BOOM OPERATORS	95
G187	MONITOR ENGINE INSTRUMENTS	95
E126	MAINTAIN CURRENCY OF FLIGHT MANUALS, SAFETY AND	95
	OPERATIONAL SUPPLEMENTS, OR FLIGHT CREW CHECKLISTS	
E156	TURN IN LIFE SUPPORT EQUIPMENT	95
E141	PARTICIPATE IN PREMISSION WEATHER BRIEFINGS	93
G216	VERBALLY DIRECT RECEIVER AIRCRAFT INTO REFUELING POSITION	93
E151	SECURE EQUIPMENT FOR FLIGHT OPERATIONS	91
F159	BRIEF FLIGHT CREWS CONCERNING AIR REFUELING MISSION ACTIVITIES	91

TABLE 9

REPRESENTATIVE TASKS PERFORMED BY AFSC 1A051 PERSONNEL

TASK	S	PERCENT MEMBERS PERFORMING (N=232)
		(11 232)
E128	OPEN OR CLOSE CREW ENTRANCE DOORS	99
G184	DIRECT RECEIVER AIRCRAFT INTO REFUELING POSITION USING PILOT	98
	DIRECTOR LIGHTS	
E127	MONITOR RADIO COMMUNICATIONS	98
F172	PERFORM PASSENGER BRIEFINGS	98
H238	SECURE CARGO	98
G211	REFUEL RECEIVER AIRCRAFT WITH BOOM REFUELING NORMAL	97
	SYSTEMS	
H223	DIRECT PASSENGERS LOADING OR UNLOADING	97
G212	REFUEL RECEIVER AIRCRAFT WITH BOOM REFUELING TANKER	97
	MANUAL OPERATIONS	
G204	PERFORM OR PRACTICE TANKER AIR REFUELING BREAKAWAY	97
	PROCEDURES	• •
G208	PERFORM PREPARATION FOR CONTACT CHECKLIST PROCEDURES FOR	97
	NORMAL BOOM AIR REFUELING	
G205	PERFORM POSTBOOM AIR REFUELING CHECKLIST PROCEDURES	97
G187		96
G195		96
H219		. 96
E136	PARTICIPATE IN CREW MAINTENANCE DEBRIFINGS	96
H240		96
H232		96
E129	OPERATE AIRCRAFT RADIOS, SUCH AS INTERCOM, INTERPHONE,	96
	AFSATCOM, OR VHF	
E126	MAINTAIN CURRENCY OF FLIGHT MANUALS, SAFETY AND	96
	OPERATIONAL SUPPLEMENTS, OR FLIGHT CREW CHECKLISTS	
E137	PARTICIPATE IN CREW OPERATION DEBRIEFINGS	96
G199	PERFORM OPERATIONAL CHECKS ON BOOM AIR REFUELING SYSTEMS	96
G185	INFORM PILOTS OF REFUELING OPERATION STATUS	95
G188	MONITOR FLIGHT INSTRUMENTS	95
E125	LOAD CREW GEAR ON AIRCRAFT	95
E151	SECURE EQUIPMENT FOR FLIGHT OPERATIONS	94
E124	INSTRUCT CREW MEMBERS OR PASSENGERS ON IN-FLIGHT OR GROUND	94
	GROUND EMERGENCY PROCEDURES	
G189	MONITOR FUEL PANELS	94
G198	PERFORM NORMAL IN-FLIGHT CHECKLISTS, OTHER THAN AIR	92
	REFUELING	
F170	PERFORM NORMAL GROUND CHECKLIST PROCEDURES	91
G127	ACT AS INLET IGHT SAFFTY ORSERVER	84

TABLE 10

TASKS WHICH BEST DIFFERENTIATE BETWEEN AFSC 1A031 AND AFSC 1A051 PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS	8	1A031 (N=43)	1A051 (N=232)	DIFFERENCE
E157 F162 E156 E155 F173	VISUALLY INSPECT PANELS, LOCKS, OR FASTENERS FIT PERSONNEL FOR SPARE PARACHUTES TURN IN LIFE SUPPORT EQUIPMENT TURN IN GALLEY EQUIPMENT PERFORM SEXTANT PREFLIGHT CHECKS	77 30 93 98	58 15 80 86	15 13 13 14 15
D104 D83 H235 E152 E117	MAINTAIN TRAINING RECORDS CONDUCT RESIDENT COURSE CLASSROOM TRAINING PREPARE AIRCRAFT FOR LOADING OR UNLOADING CARGO SELECT MAINTENANCE BREVITY CODES APPLY INTERNAL OR EXTERNAL POWER TO AIRCRAFT CONDICT TRAINING CONFERENCES OR RESIDENCE	23 81 74 74	15 13 24 88 24	Ei Ei ± ± ±
H230 D84 D113	PERFORM SPECIAL HANDLING REQUIREMENTS CONDUCT RESIDENT COURSE FLIGHT INSTRUCTION WRITE TRAINING REPORTS DEVELOP LESSON PLANS	, 1 000	5 4 4 4 4	;
D105 F179 H227 G200 G209	PERFORM SPECIAL HANDLING REQUIREMENTS REPLENISH OIL OR HYDRAULIC FLUIDS OPERATE CARGO LOADING EQUIPMENT PERFORM OPERATIONAL CHECKS ON DROGUE AIR REFUELING SYSTEMS PREPARE FOR CONTACT CHECKLIST PROCEDURES FOR NORMAL DROGUE AIR REFUELING	23 63 64 63	38 78 33	41- 15- 15- 16-

TABLE 11 REPRESENTATIVE TASKS PERFORMED BY AFSC 1A071 PERSONNEL

TASKS		MEMBERS PERFORMING (N=227)
E100	ACCUSATE BARNO COLO CRECATIONE	~
E127		97 27
E128	OPEN OR CLOSE CREW ENTRANCE DOORS	97 97
G211	REFUEL RECEIVER AIRCRAFT WITH BOOM REFUELING NORMAL SYSTEMS	97
G184	DIRECT RECEIVER AIRCRAFT INTO REFUELING POSITION USING PILOT DIRECTOR LIGHTS	96
G186	INTERPRET AND USE RADIO SILENT SIGNALS	96
E126	MAINTAIN CURRENCY OF FLIGHT MANUALS, SAFETY AND	96
	OPERATIONAL SUPPLEMENTS, OR FLIGHT CREW CHECKLISTS	
E138	PARTICIPATE IN GENERAL OR SPECIALIZED MISSION BRIEFINGS	96
G205	PERFORM POSTBOOM AIR REFUELING CHECKLIST PROCEDURES	96
E129	OPERATE AIRCRAFT RADIOS, SUCH AS INTERCOM, INTERPHONE,	96
	AFSATCOM, OR VHF	
G188	MONITOR FLIGHT INSTRUMENTS	96
F172	PERFORM PASSENGER BRIEFINGS	96
H223	DIRECT PASSENGERS LOADING OR UNLOADING	96
F172	PERFORM PASSENGER BRIEFINGS	96
G187	MONITOR ENGINE INSTRUMENTS	95
G195	PERFORM EMCON OPTION-2 AIR REFUELING	95
G198	PERFORM NORMAL IN-FLIGHT CHECKLISTS, OTHER THAN AIR	95
	REFUELING	
E136	PARTICIPATE IN CREW MAINTENANCE DEBRIEFINGS	95
E137	PARTICIPATE IN CREW OPERATION DEBRIEFINGS	95
G212	REFUEL RECEIVER AIRCRAFT WITH BOOM REFUELING TANKER	94
	MANUAL OPERATIONS	
G204	PERFORM OR PRACTICE TANKER AIR REFUELING BREAKAWAY	94
	PROCEDURE:	
H240	SUPERVISE PASSENGERS ON MISSIONS	94
E125	LOAD CREW GEAR ON AIRCRAFT	94
G189	MONITOR FUEL PANELS	94
H219	COMPUTE CARGO RESTRAINT REQUIREMENTS	93
H235	PREPARE AIRCRAFT FOR LOADING OR UNLOADING CARGO	93
E133	OPERATE GALLEY EQUIPMENT	93
G185	INFORM PILOTS OF REFUELING OPERATION STATUS	93
E151		93
G208	PERFORM PREPARATION FOR CONTACT CHECKLIST PROCEDURES FOR	93
	NORMAL BOOM AIR REFUELING	
C102	ACT AC IN BY ICUT CARRY ODCROVED	02

TABLE 12

TASKS WHICH BEST DIFFERENTIATE BETWEEN AFSC 1A051 AND AFSC 1A071 PERSONNEL (PERCENT MEMBERS PERFORMING)

Ē	5	1A051	1A071	
IASKS		(N=232)	(/77=N)	DIFFERENCE
A 3	COORDINATE OPERATIONAL WORK ACTIVITIES WITH OTHER SECTIONS	20	53	-33
AS	DETERMINE WORK PRIORITIES	19		77-
A8	DEVELOP WORK METHODS OR PROCEDURES	6	35	97-
A10	ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (O15), OR STANDARD	80	27	-22
	OPERATING PROCEDURES (SOPs)			
AII	ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES	7	37	-30
A13	PLAN BRIEFINGS	22	47	-25
A14	PLAN FLIGHT SCHEDULES	6	32	-23
A18	PLAN STANDARDIZATION PROGRAMS	7	23	-21
B23	COMPILE INFORMATION FOR REPORTS OR STAFF STUDIES	7	32	-25
B29	DIRECT UTILIZATION OF PERSONNEL	80	5 6	-21
B38	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES	12	41	-29
B42	SUPERVISE APPRENTICE IN-FLIGHT REFUELING OPERATORS (AFSC 1A031)	20	51	-31
B44	SUPERVISE IN-FLIGHT REFUELING OPERATORS (AFSC 1A051)	57	59	-35
B46	SUPERVISE IN-FLIGHT REFUELING OPERATOES/TECHNICIANS (AFSC 1A071)	01	47	-37
B49	WRITE CORRESPONDENCE	9	38	-32
CS0	ADMINISTER PROFICIENCY CHECKS	9	28	77-
<u>ლ</u>	ADMINISTER RECURRENCY CHECKS	4	%	77-
CSS	EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS	œ	31	-73
D76	ADMINISTER TESTS	91	4	-32
<i>71</i> 0	ADVISE STAFF OR UNIT PERSONNEL ON TRAINING MATTERS	12	\$	-38
D % 0	CONDUCT PROFICIENCY TRAINING	5 6	61	-35
D81	CONDUCT RECEIVER CATEGORY TRAINING	7	49	-25
D82	CONDUCT REMEDIAL TRAINING	21	51	-30
D87	COUNSEL TRAINEES ON TRAINING PROGRESS	91	45	-29
D88	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	23	%	-33

TABLE 13

REPRESENTATIVE TASKS PERFORMED BY AFSC 1A091 PERSONNEL

TASK		PERCENT MEMBERS PERFORMING (N=32)
		(2. 33)
E127	MONITOR RADIO COMMUNICATIONS	100
G194	PERFORM EMISSIOM CONTROL (EMCON) OPTION-1 AIR REFUELING	100
G210	PREPARE FOR CONTACT CHECKLIST PROCEDURES FOR TANKER	100
	MANUAL AIR REFUELING	
G212	REFUEL RECEIVER AIRCRAFT WITH BOOM REFUELING TANKER	100
	MANUAL OPERATIONS	
E128	OPEN OR CLOSE CREW ENTRANCE DOORS	100
G204	PERFORM OR PRACTICE TANKER AIR REFUELING BREAKAWAY	100
	PROCEDURES	
G205	PERFORM POSTBOOM AIR REFURLING CHECKLIST PROCEDURES	100
E138	PARTICIPATE IN GENERAL OR SPECIALIZED MISSION BRIEFINGS	100
G186	INTERPRET AND USE RADIO SILENT SIGNALS	100
G187	MONITOR ENGINE INSTRUMENTS	100
E129	OPERATE AIRCRAFT RADIOS, SUCH AS INTERCOM, INTERPHONE,	100
	AFSATCOM, OR VHF	
F170	PERFORM NORMAL GROUND CHECKLIST PROCEDURES	100
E126	MAINTAIN CURRENCY OF FLIGHT MANUALS, SAFETY AND	100
	OPERATIONAL SUPPLEMENTS, OR FLIGHT CREW CHECKLISTS	
G216	VERBALLY DIRECT RECEIVER AIRCRAFT INTO REFUELING POSITION	100
E137	PARTICIPATE IN CREW OPERATION DEBRIEFINGS	100
G189	MONITOR FUEL PANELS	100
G211	REFUEL RECEIVER AIRCRAFT WITH BOOM REFUELING NORMAL	100
	SYSTEMS	
G208	PERFORM PREPARATION FOR CONTACT CHECKLIST PROCEDURES FOR	100
	NORMAL BOOM AIR REFUELING	
E124	INSTRUCT CREW MEMBERS OR PASSENGERS ON IN-FLIGHT OR	97
	GROUND EMERGENCY PROCEDURES	
E136	PARTICIPATE IN CREW MAINTENANCE DEBRIEFINGS	97
E120	DEMONSTRATE TO PASSENGERS THE PROPER USE OF LIFE SUPPORT	97
	EQUIPMENT	
G190	OPERATE AIR-CONDITIONING CONTROLS	97
G195	PERFORM NORMAL GROUND CHECKLIST PROCEDURES	97
	PARTICIPATE IN CREW MAINTENANCE DEBRIEFINGS	97
G184	DIRECT RECEIVER AIRCRAFT INTO REFUELING POSITION USING PILOT	97
	DIRECTOR LIGHTS	
G182	ACT AS IN-FLIGHT SAFETY OBSERVER	97
G199	PERFORM OPERATIONAL CHECKS ON BOOM AIR REFUELING SYSTEMS	97
G188	MONITOR FLIGHT INSTRUMENTS	97
G198	PERFORM NORMAL IN-FLIGHT CHECKLISTS, OTHER THAN AIR	94
	REFUELING	
AS	TOTEDAMIE WODE DOLOPITES	21

TABLE 14

TASKS WHICH BEST DIFFERENTIATE BETWEEN AFSC 1A071 AND AFSC 1A091 PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS		1A071 (N=227)	1A091 (N=32)	DIFFERENCE
A1 A22	ASSIGN PERSONNEL TO DUTY POSITIONS SCHEDULE PERSONNEL FOR SCHOOLS, TEMPORARY DUTY (TDY) ASSIGNMENTS, OR NONTECHNICAL	7 7	53 63	77
C53 A10	ANALYZE WORKLOAD REQUIREMENTS ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (OIs), OR STANDARD OPERATING	10 27	88	-39 -39
\$ \$	PROCEDURES (SOPs) DETERMINE WORK PRIORITIES DETERMINE REQUIREMENTS FOR SPACE, PERSONNEL, EQUIPMENT, OR SUPPLIES	43	8 69	.38 38
B23 CS6	COMPILE INFORMATION FOR REPORTS OR STAFF STUDIES EVALUATE INDIVIDUALS FOR PROMOTION, DEMOTION, RECLASSIFICATION, OR SPECIAL AWARDS	32 13	& &	.37 75.
B49 C57	WRITE CORRESPONDENCE EVALUATE INSPECTION REPORTS OR PROCEDURES	38	27 74	£ &
A19	PLAN WORK ASSIGNMENTS, OTHER THAN FLIGHT SCHEDULES	: E	% :	; Š .
C 33	WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS EVALUATE JOB DESCRIPTIONS	σ •	4	÷ 4
A21	SCHEDULE LEAVES OR PASSES	91	S	*
A20 B29	PREPARE JOB DESCRIPTIONS DIRECT UTILIZATION OF PERSONNEL	2 2	4 &	¥ &
A7	DEVELOP ORGANIZATIONAL OR FUNCTIONAL CHARTS	22	4	-32
C73	PREPARE EPRS INTERPRET POLICIES DIRECTIVES OR PROCEDURES FOR SUBORDINATES	<u> </u>	. 6	-30 -38
4	SUPERVISE IN-FLIGHT REFUELING OPERATOES/TECHNICIANS (AFSC 1A071)	47	3.5	87-
B36	INITIATE PERSONNEL ACTION REQUESTS	۲,	X 8	-2. .:
7 Y	FLAN FLIGHT SCHEDULES ESTABLISH UNIT TRAINING STANDARDS	7 2	y 4	-27 -27
C59	EVALUATE MAINTENANCE OR UTILIZATION OF WORKSPACE, EQUIPMENT, OR SUPPLIES	ν §	31	% %
3	COCKLINALE OF EKALLIONAL WORK ACTIVILES WITH OTHER SECTIONS ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL	g &	6 ¥	ç; ç ;
A8 797	DEVELOP WORK METHODS OR PROCEDURES FVAI HATE INSTRIPTIONS	35	S 3	-24 -23
98 46	DEVELOP COST REDUCTION PROGRAMS	} ∞	31 8	; ;

TABLE 15

REPRESENTATIVE TASKS PERFORMED BY AFSC 1A000 PERSONNEL

TASK	S	PERCENT MEMBERS PERFORMING (N=15)
F170	PERFORM NORMAL GROUND CHECKLIST PROCEDURES	100
F172	PERFORM PASSENGER BRIEFINGS	100
G205	PERFORM POSTBOOM AIR REFUELING CHECKLIST PROCEDURES	100
G189	MONITOR FUEL PANELS	100
G208	PERFORM PREPARATION FOR CONTACT CHECKLIST PROCEDURES FOR	100
G184	DIRECT RECEIVER AIRCRAFT INTO REFUELING POSITION USING PILOT DIRECTOR LIGHTS	100
G188	MONITOR FLIGHT INSTRUMENTS	100
G185	INFORM PILOTS OF REFUELING OPERATION STATUS	100
G191	PERFORM BOOM AIR REFUELING ABNORMAL PROCEDURES	100
E124	INSTRUCT CREW MEMBERS OR PASSENGERS ON IN-FLIGHT OR GROUND EMERGENCY PROCEDURES	100
G187	MONITOR ENGINE INSTRUMENTS	100
G192	PERFORM BOOM SYSTEM EMERGENCY OPERATIONS	100
G206	PERFORM POSTDROGUE AIR REFUELING CHECKLIST PROCEDURES	100
G202	PERFORM OR PRACTICE IN-FLIGHT ABNORMAL PROCEDURES	100
G211	REFUEL RECEIVER AIRCRAFT WITH BOOM REFUELING NORMAL SYSTEMS	93
E138	PARTICIPATE IN GENERAL OR SPECIALIZED MISSION BRIEFINGS	93
E127	MONITOR RADIO COMMUNICATIONS	93
E129	OPERATE AIRCRAFT RADIOS, SUCH AS INTERCOM, INTERPHONE, AFSATCOM, OR VHF	93
G216	VERBALLY DIRECT RECEIVER AIRCRAFT INTO REFUELING POSITION	93
G182	ACT AS IN-FLIGHT SAFETY OBSERVER	93
G199	PERFORM OPERATIONAL CHECKS ON BOOM AIR REFUELING SYSTEMS	93
E137	PARTICIPATE IN CREW OPERATION DEBRIEFINGS	93
G194	PERFORM EMISSION CONTROL (EMCON) OPTION-1 AIR REFUELING	93
F159	BRIEF FLIGHT CREWS CONCERNING AIR REFUELING MISSION ACTIVITIES	93
E151	SECURE EQUIPMENT FOR FLIGHT OPERATIONS	93
E136	PARTICIPATE IN CREW MAINTENANCE DEBRIEFINGS NORMAL BOOM AIR REFUELING	93
G195	PERFORM NORMAL GROUND CHECKLIST PROCEDURES	87
A 3	COORDINATE OPERATIONAL WORK ACTIVITIES WITH OTHER SECTIONS	87
A5	DETERMINE WORK PRIORITIES	21

TABLE 16

TASKS WHICH BEST DIFFERENTIATE BETWEEN AFSC 1A091 AND AFSC 1A600 PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS		1A091 (N=32)	1A001 (N=15)	DIFFERENCE
H221 A4	COMPUTE WEIGHT AND BALANCE CLEARANCE WITHOUT LOAD ADJUSTERS DETERMINE REQUIREMENTS FOR SPACE, PERSONNEL, EQUIPMENT, OR SUPPLIES	91	8 4	31
H226	MARSHAL VEHICLES INSIDE AIRCRAFT	5 5	4	8
D83	CONDUCT RESIDENT COURSE CLASSROOM TRAINING	8	7	27
E157	VISUALLY INSPECT PANELS, LOCKS, OR FASTENERS	53	23	%
D80	CONDUCT PROFICIENCY TRAINING	8	4	%
D103	MAINTAIN TRAINING EQUIPMENT	25	0	25
E135	ORDER AIRCREW TRANSPOPTATION	82	23	25
B48	UPDATE CONTINGENCY PLANS	31	7	z
EIX	ORDER AIRCREW FLIGHT LUNCHES	76	52	z
H23	POSITION LOADERS OR ELEVATORS	69	41	ដ
D109	PROCURE TRAINING AIDS, SPACE, OR EQUIPMENT	22	0	77
E155	TURN IN GALLEY EQUIPMENT	75	23	77
D91	DEVELOP LESSON PLANS	ጀ	13	21
D108	PREPA. TRAINING SCHEDULES	ጀ	13	71
C3	PREPARE EPRS	4	2	21
E141	PERTICIPATE IN PREMISSION WEATHER BRIEFINGS	z	27	71
F179	REPLENISH OIL OR HYDRAULIC FLUIDS	23	33	20
G206	PERFORM POSTDROGUE AIR REFUELING CHECKLIST PROCEDURES	5	901	-19
C52	ADMINISTER STANDARDIZATION BOARD CHECKS	19	4	-21
CSI	ADMINISTER RECURRENCY CHECKS	25	47	-77
A18	PLAN STANDARDIZATION PROGRAMS	38	8	77-
G202	PERFORM OR PRACTICE IN-FLIGHT ABNORMAL PROCEDURES	75	<u>2</u>	-25
Z	MAINTAIN TO FILES	2.5	23	-28
G207	PERFORM REVERSE REFUELING	38	<i>L</i> 9	-29
99	EVALUATE NEW SYSTEM DEVELOPMENTS, SUCH AS BOOM, DROGUE, OR RECEIVER EQUIPMENT	፠	19	-35
A A	SUPERVISE IN-FLIGHT REFUELING OPERATORS/SUPERINTENDENTS (AFSC 1A091)	31	29	. 36
લ્ક	EVALUATE STANDARDIZATION PROGRAMS	78	<i>L</i> 9	-39
CSO	ADMINISTER PROFICIENCY CHECKS	78	<i>L</i> 9	-39

Summary

Three-skill level and 5-skill level airmen perform many tasks in common, and both groups spend the vast majority of their relative job time performing aircrew/In-Flight refueler/loadmaster tasks. While the 7-skill level personnel do perform some supervisory tasks, they spend the majority of their relative job time doing the same tasks that the apprentices and journeymen perform. Nine-skill level members and CEMs act as the managers of the career ladder.

ANALYSIS OF AFMAN 36-2108 SPECIALTY DESCRIPTIONS

Survey data were compared to the AFMAN 36-2108, Specialty Descriptions, for Mi-Flight Refueling Operator/Technician effective 30 April 1991. The comparison revealed that all three documents (the 1-, 3-, and 5-skill levels; the 7-skill level; and the 9- and CEM Code-skill levels) are accurate depictions of the actual jobs and tasks performed in the career ladder.

TRAINING ANALYSIS

One of the many sources of information which can be used to assist in the development of a relevant training program is occupational survey data. Factors used in evaluating training include the overall description of the job being performed by first-enlistment personnel and their overall distribution across career ladder jobs, percentages of first-job (1-24 months' TAFMS) or first-enlistment (1-48 months' TAFMS) members performing specific tasks, or using certain equipment or tools, as well as TE and TD ratings (previously explained in the SURVEY METHODOLOGY section).

To assist specifically in evaluation of the STS, personnel from HQ AETC/XOTA, Randolph AFB TX matched JI tasks to appropriate sections and subsections of the STS. This match between the STS and JI tasks provided the basis for a detailed analysis of the STS. A summary of this information is presented below.

First-Enlistment Personnel

In this study, there are 112 members in their first enlistment (1-48 months TAFMS), representing 20 percent of the total survey sample. Tables 17 and 18 show that first-enlistment airmen are mainly involved in the air refueling activities, rather than the training/supervisory jobs.

TABLE 17

RELATIVE PERCENT OF TIME SPENT ACROSS DUTIES BY FIRST ENLISTMENT (1-48 MONTHS TAFMS) AFSC 1A0X1 PERSONNEL**

DU	TIES	AVERAGE PERCENT TIME SPENT
A	ORGANIZING AND PLANNING	•
В	DIRECTING AND IMPLEMENTING	*
С	INSPECTING AND EVALUATING	*
D	TRAINING	*
E	PERFORMING COMMON AIRCREW TASKS	36
F	PERFORMING PREFLIGHT AND POSTFLIGHT FUNCTIONS	14
G	PERFORMING IN-FLIGHT AIR REFUELING AND CRUISING FUNCTIONS	33
Н	PERFORMING LOADMASTER FUNCTIONS	16
	Danisha langshan Lunanan	

- * Denotes less than 1 percent
- ** Column may not add up to 100 percent due to rounding

TABLE 18

REPRESENTATIVE TASKS PERFORMED BY FIRST-ENLISTMENT AFSC 1A0X1 PERSONNEL

TASKS		MEMBERS PERFORMING (N=112)
G184	DIRECT RECEIVER AIRCRAFT INTO REFUELING POSITION USING PILOT	100
G 211	DIRECTOR LIGHTS REFUEL RECEIVER AIRCRAFT WITH BOOM REFUELING NORMAL SYSTEMS	99
G185	INFORM PILOTS OF REFUELING OPERATION STATUS	99
E128	OPEN OR CLOSE CREW ENTRANCE DOORS	99
E153	STUDY TOS FOR ABNORMAL, EMERGENCY GROUND, OR IN-FLIGHT PROCEDURES	99
F173	PERFORM SEXTANT PREFLIGHT CHECKS	99
E127	MONITOR RADIO COMMUNICATIONS	98
G195	PERFORM EMCON OPTION-2 AIR REFUELING	98
E138	PARTICIPATE IN GENERAL OR SPECIALIZED MISSION BRIEFINGS	98
G194	PERFORM EMISSION CONTROL (EMCON) OPTION-1 AIR REFUELING	98
G205	PERFORM POSTBOOM AIR REFUELING CHECKLIST PROCEDURES	98
E137	PARTICIPATE IN CREW OPERATION DEBRIEFINGS	98
G187	MONITOR ENGINE INSTRUMENTS	98
E134	ORDER AIRCREW FLIGHT LUNCHES	98
E130	OPERATE EMERGENCY ESCAPE HATCHES	98
G189	MONITOR FUEL PANELS	98
G204	PERFORM OR PRACTICE TANKER AIR REFUELING BREAKAWAY PROCEDURES	97
G198	PERFORM NORMAL IN-FLIGHT CHECKLISTS, OTHER THAN AIR REFUELING	97
E125	LOAD CREW GEAR ON AIRCRAFT	96
G188	MONITOR FLIGHT INSTRUMENTS	96
E141	PARTICIPATE IN PREMISSION WEATHER BRIEFINGS	96
E126	MAINTAIN CURRENCY OF FLIGHT MANUALS, SAFETY AND	96
	OPERATIONAL SUPPLEMENTS, OR FLIGHT CREW CHECKLISTS	
G208	PERFORM PREPARATION FOR CONTACT CHECKLIST PROCEDURES FOR	96
	NORMAL BOOM AIR REFUELING	
E129	OPERATE AIRCRAFT RADIOS, SUCH AS INTERCOM, INTERPHONE,	95
	AFSATCOM, OR VHF	
E156	TURN IN LIFE SUPPORT EQUIPMENT	95
G216	VERBALLY DIRECT RECEIVER AIRCRAFT INTO REFUELING POSITION	95
E151	SECURE EQUIPMENT FOR FLIGHT OPERATIONS	94
F175	POSITION PROFESSIONAL EQUIPMENT AT BOOM OPERATORS	94
E124	INSTRUCT CREW MEMBERS OR PASSENGERS ON IN-FLIGHT OR GROUND EMERGENCY PROCEDURES	93
F159	BRIEF FLIGHT CREWS CONCERNING AIR REFUELING MISSION ACTIVITIES	91

Distribution of these personnel across the career ladder jobs is displayed in Figure 2, which further illustrates the point that the majority of first-enlistment airmen are associated with common aircrew and refueling duties. Table 8 displays some of the representative tasks performed by the group.

TE and TD Data

TE and TD data are secondary factors that can assist technical school personnel in deciding which tasks should be emphasized in entry-level training. These ratings, based on the judgments of senior NCOs working at operational units, are collected to provide training personnel with a rank-ordering of those tasks in the JI considered important for first-enlistment personnel training (TE) (see Table 19 for the top-rated tasks), along with a measure of the difficulty of the JI tasks (TD) (see the highest rated tasks presented in Table 20). When combined with data on the percentages of first-enlistment personnel performing tasks, comparisons can then be made to determine if training adjustments are necessary. For example, tasks receiving high ratings on both task factors, accompanied by moderate to high percentages performing, may warrant resident training. Those tasks receiving high task factor rating lows, but percentages performing, may be more appropriately planned for OJT programs within the career ladder. Low task factor ratings may highlight tasks best omitted from training for first-enlistment personnel, but this decision must be weighed against percentages of personnel performing the tasks, command concerns, and criticality of the tasks.

To assist technical school personnel, AFOMS has developed a computer program that incorporates these secondary factors, and the percentage of first-enlistment personnel performing each task to produce an Automated Training Indicator (ATI) for each task. These indicators correspond to training decisions listed and defined in the Training Decision Logic Table found in Attachment 1, ATCR 52-22, and allow course personnel to quickly focus their attention on those tasks which are most likely to qualify for basic resident course (ABR) consideration.

Various lists of tasks, accompanied by TE and TD ratings, and where appropriate, ATI information, are contained in the TRAINING EXTRACT package and should be reviewed in detail by technical school personnel. (For a more detailed explanation of TE and TD ratings, see <u>Task Factor Administration</u> in the SURVEY METHODOLOGY section of this report.)

Specialty Training Standard (STS)

A comprehensive review of STS 1A0X1 (112X0), dated August 1991, compared STS items to survey data. Task knowledge and performance elements of the STS were compared against the standard set forth in AETCR 52-22, paragraph 3b (2), (i.e., STS entries matched to tasks performed by 20 percent first-job, first-enlistment, 5-skill level, or 7-skill level respondents should be retained.)

JOBS PERFORMED BY AFSC 1A0X1 FIRST-ENLISTMENT PERSONNEL

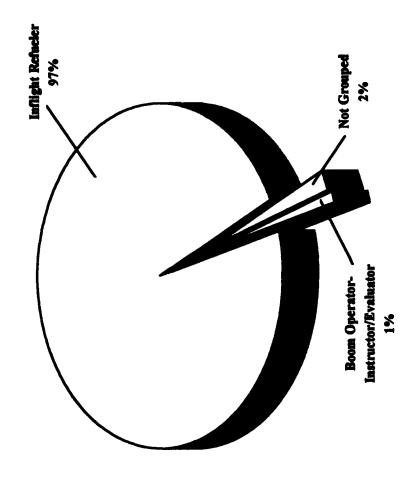


FIGURE 2

TABLE 19

TASKS WITH HIGHEST TRAINING EMPHASIS RATINGS

PERCENT MEMBERS PERFORMING

TASKS		TNG	1ST JOB	IST	TASK
H238 E120 G208	SECURE CARGO DEMONSTRATE TO PASSENGERS THE PROPER USE OF LIFE SUPPORT EQUIPMENT PREFORM PREPARATION FOR CONTACT CHECKLIST PROCEDURES FOR NORMAL BOOM AIR	7.43 7.38 7.38	833	888	6.09 4.72 4.97
H239 G211	SUPERVISE LOAD TEAMS REFUEL RECEIVER AIRCRAFT WITH BOOM REFUELING NORMAL SYSTEMS	7.32	8 8	28 8 5	5.87 5.73
H219 G212 E126	COMPUTE CARGO RESTRAINT REQUIREMENTS REFUEL RECEIVER AIRCRAFT WITH BOOM REFUELING TANKER MANUAL AIR REFUELING MAINTAIN CURRENCY OF FLIGHT MANUALS, SAFETY AND OPERATIONAL SUPPLEMENTS,	7.19 7.16 7.14	8	822	6.0 3 4.91
G191 E130	OR FLIGHT CREW CHECKLISTS PERFORM BOOM AIR REFUELING ABNORMAL PROCEDURES OPERATE EMERGENCY ESCAPE HATCHES	7.08	3 %	% %	309
G204 G204 G204	PREPARE FOR CONTACT CHECKLIST PROCEDURES FOR TANKER MANUAL AIR REFUELING PERFORM OR PRACTICE TANKER AIR REFUELING BREAKAWAY PROCEDURES DIRECT RECEIVER AIRCRAFT INTO REFUELING POSITION USING PILOT DIRECTOR LIGHTS	20.7	% % §	2	5.07 5.37 5.14
H229 H240	PERFORM LOAD PLANNING FOR CARGO OR PASSENGER MISSIONS SUPERVISE PASSENGERS ON MISSIONS OPERATE CARGO LOADING EQUIPMENT	6.95 6.95 6.95	332	3 % %	2. 4. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.
H223 G192 G203	DIRECT PASSENGERS LOADING OR UNLOADING PERFORM BOOM SYSTEMS EMERGENCY OPERATIONS PERFORM OR PRACTICE IN-FLIGHT EMERGENCY PROCEDURES	6.89 8.99 8.90 8.90	8 8 8	888	5.06 5.64 5.64
E124 H232	INSTRUCT CREW MEMBERS OR PASSENGERS ON IN-FLIGHT OR GROUND EMERGENCY PROCEDURES POSITION CARGO IN AIRCRAFT	6.86 48.6	8 %	8 8	4.99 5.82
			ı	ı	1

TABLE 20

TASKS WITH HIGHEST TASK DIFFICULTY RATINGS

			Z	PE	PERCENT MEMBERS PERFORMING	AING		
TASKS		TSK	1ST JOB	1ST ENL	AFSC 1A051	AFSC 1A071	TNG	
ž	WRITH STAFF STIMIES SIRVEYS OR SPECIAL REPORTS	6.91	0	7	7	6	\$9.	
B42	SUPERVISE APPRENTICE IN-FLIGHT REFUELING OPERATORS (AFSC 1A031)	6.75	4	4	2	51	4.16	
D92		69.9	0	-	e	6	1.35	
160	DEVELOP LESSON PLANS	6.63	0	_	7	78	2.59	
D101	INSTRUCT KCIOLOAD PLANNING COURSES	6.62	0	0	0	9	S 6.	
8	DRAFT BUDGET OR FINANCIAL REQUIREMENTS	6.62	0	7	-	2	=	
A14	PLAN PLIGHT SCHEDULES	6.56	0	7	0	32	1.9	
E144	PERFORM FLIGHT TESTS FOR NEW FLIGHT PROCEDURES	6.49	2	13	13	91	1.43	
D63	DEVELOP TRAINING MATERIALS, SUCH AS VIDBOS, SLIDES, OR CHARTS	6.39	0	-	0	17	2.59	
H221	COMPUTE WEIGHT AND BALANCE CLEARANCE WITHOUT LOAD	6.34	23	11	F	€	6.73	
	ADJUSTERS							
G192	PERFORM BOOM SYSTEM EMERGENCY OPERATIONS	6.32	8	8	&	&	6.89	
23	INVESTIGATE MISHAPS OR INCIDENTS	6.31	0	0	0	6	1.05	
B23	COMPILE INFORMATION FOR REPORTS OR STAFF STUDIES	6.28	7	7	7	32	1.70	
3	WRITE CIVILIAN PERFORMANCE RATINGS OR SUPERVISORY APPRAISALS	6.26	0	0	0	0	8 6.	
A10	ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (OIs), OR	6.25	0	0	s	11	1.38	
	STANDARD OPERATING PROCEDURES (SOPs)							
A18	PLAN STANDARDIZATION PROGRAMS	6.25	0	0	7	23	1.54	
H218	CERTIFY LOAD PLANS	6.24	\$	53	53	2	5.73	
E143	PERFORM FLIGHT TESTS FOR NEW EQUIPMENT VALIDATION	6.17	77	77	61	2	2.11	
A6	DEVELOP COST REDUCTION PROGRAMS	6.16	0	_		•	6 †	
D85	CONDUCT TRAINING CONFERENCES OR BRIEFINGS	6.16	0	7	±	8	1.92	
<u> </u>								

Overall, the STS provides comprehensive coverage of the work performed by personnel in this career ladder. Even though most elements did not have high percentages of year or skill-level groups performing matched tasks, the fact that the matched tasks were a part of an identifiable job being performed in the career ladder supports the retention of the STS element involving those tasks. Tasks not matched to any element of the STS are listed in Table 21. These were reviewed to determine if there were any tasks concentrated around any particular functions or jobs. No particular trends were noted, indicating the STS adequately covers the work performed by the In-Flight Refueling Specialty. The data should provide a sound basis for periodic review of training.

JOB SATISFACTION ANALYSIS

An examination of the job satisfaction indicators of various groups can give career ladder managers a better understanding of some of the factors which may affect the job performance of airmen in the career ladder. Questions covering job interest, perceived utilization of talents and training, sense of accomplishment from work, and reenlistment intentions were included in the survey booklet to provide indications of career ladder member job satisfaction. Table 25 presents job satisfaction data for AFSC 1A0X1 TAFMS groups, together with data for a comparative sample of Aircrew Operations career ladders surveyed in 1993. These data can give a relative measure of how the job satisfaction of AFSC 1A0X1 personnel compares with other similar Air Force specialties. Review of Table 22 reflects that responses from AFSC 1A0X1 TAFMS groups regarding job interest, use of talents, use of training, and reenlistment intentions are all quite positive and are generally higher than nearly all of the comparative groups. The first-enlistment personnel responded more positively than the comparative sample, which was comprised of data from AFSCs 1T2X1, 1A4X1, and 1A5X3. Second-enlistment and career-year groups responded almost as positively as the first-enlistment personnel across all comparative factors. It is obvious that AFSC 1A0X1 personnel are overwhelmingly satisfied in their respective careers.

An indication of how job satisfaction perceptions have changed over time is provided in Table 23, where TAFMS group data for 1993 survey respondents are presented, along with data from respondents to the last occupational survey involving this career ladder, published in 1983. Comparison of job satisfaction indicator responses of current survey TAFMS groups to those in the 1983 survey (see Table 21) indicates that positive responses are almost all higher than those for 1983 corresponding groups. Noteworthy positive increases occurred in the first and second enlistment under the Perceived Use of Talent heading. In the 97+ months TAFMS group, however, there was an increase in intent to retire at the end of the current enlistment.

The differences in job satisfaction between jobs were slight (see Table 24). Incumbents in the Senior Program Manager, Flight Mission Scheduler, and Command Evaluator jobs saw their jobs as interesting; Ground Schedulers reported more than any other incumbents that their job was dull. Ground Schedulers also felt (more than all other incumbents) that their job did not utilize their talents or training. The job group expressing the highest interest in reenlisting was the

TABLE 21

EXAMPLES OF TECHNICAL TASKS PERFORMED BY 20 PERCENT OR MORE AFSC 1A0X1 GROUP MEMBERS AND NOT REFERENCED TO THE STS

		MEMBE	PERCENT MEMBERS PERPORMING	RMING		
		IST ENL	DAFSC 1A051	DAFSC 1A071	DNC.	TASK
TASKS		(N=112)	(N=232)	(N=227)	ENG.	DIFF
G212	REFUEL RECEIVER AIRCRAFT WITH BOOM REUELING MANUAL OPERATIONS	8	6	z	7.16	9 0.9
G207	PERFORM REVERSE REFUELING	\$	49	41	4.81	5.93
H239	SUPERVISE LOAD TEAMS	%	8 0	25	7.32	5.87
F174	PERFORM USE OF AIRCREW CHEMICAL DEFENSE EQUIPMENT (ACDE)	%	92	83	4.32	2.67
H220	COMPUTE WEIGHT AND BALANCE CLEARANCE WITH LOAD ADJUSTERS	19	51	41	4.8 6	5.41
G 20 4	PERFORM OR PRACTICE TANKER AIR REFUELING BREAKAWAY PROCEDURES	2	76	ま	9.7	5.37
H226	MARSHAL VEHICLES INSIDE AIRCRAFT	89	8	62	5.30	5.32
G198	PERFORM NORMAL IN-FLIGHT CHECKLISTS, OTHER THAN AIR REFUELING	8	23	98	6.49	5.16
E145	PERFORM HIGH ALTITUDE PROCEDURES IN ALTITUDE CHAMBER	19	62	55	3.00	4.98
G205	PERFORM POSTBOOM AIR REFUELING CHECKLIST PROCEDURES	%	76	8	6.73	4.78
G188	MONITOR FLIGHT INSTRUMENTS	æ	98	8	6.19	4.65
G187	MONITOR ENGINE INSTRUMENTS	%	8	9 8	5.89	4.41
E140	PARTICIPATE IN PREMISSION OR POSTFLIGHT INTELLIGENCE BRIEFINGS	æ	*	89	4.19	3.71
E133	OPERATE GALLEY EQUIPMENT	æ	z	93	4.65	2.83
E149	PICK UP AND INSPECT FLIGHT LUNCHES OR GALLEY EQUIPMENT, SUCH AS COFFEE IUGS	8	82	88	2.70	2.42
E155	TURN IN GALLEY EQUIPMENT	8	8	2	1.97	2.29
E134	ORDER AIRCREW FLIGHT LUNCHES	8 6	33	16	2.95	2.17
E135	ORDER AIRCREW TRANSPORTATION	۶	7	%	2.51	2.14

* Training Emphasis has an average of 3.50 and a Standard Deviation of 2.52 (High TE=5.76) ** Average TD rating is 5.00, and the Standard Deviation is 1.00

TABLE 22

COMPARISON OF JOB SATISFACTION INDICATORS FOR AFSC 1A0X1 TAFMS GROUPS IN CURRENT STUDY TO A COMPARATIVE SAMPLE (PERCENT MEMBERS RESPONDING)

	1-48 MON	1-48 MONTHS TAFMS	49-96 MON	49-96 MONTHS TAFMS	97+ MON	97+ MONTHS TAFMS
-	1A0X1 (N=112)	AIRCREW (N=43)	1A0X1 (N=129)	AIRCREW (N=85)	1A0X1 (N=308)	AIRCREW (N=85)
EXPRESSED JOB INTEREST:						
DULL		\$	7	7	4	7
SO-SO	4	6	-	13	9	=======================================
INTERESTING	96	98	%	&	16	82
PERCEIVED USE OF TALENTS:				***************************************		
NONE TO VERY LITTLE	S	18	4	22	7	91
FAIRLY WELL TO PERFECT	3 8	8	8	78	85	ž
PERCEIVED USE OF TRAINING				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
NONE TO VERY LITTLE	0	80	7	12	9	91
FAIRLY WELL TO PERFECT	100	95	86	&	93	z
SENSE OF ACCOMPLISHMENT FROM JOB:						
DISSATISFIED	4	12	-	23	∞	8 1
NEUTRAL	က	6	7	s	7	9
SATISFIED	8	79	6	72	8	75
REENLISTMENT INTENTIONS:						
WILL RETIRE	0	0	0	0	19	15
NO OR PROBABLY NO	22	23	11	29	85	11
YES OR PROBABLY YES	11	78	68	11	92	74

Denotes less than 1 percent

NOTE: Comparative data are from AFSCs 1A5X3, 1A4X1, and 1T2X1 (1993)

^{**} Columns may not add up to 100 percent due to rounding or nonresponse

TABLE 23

COMPARISON OF JOB SATISFACTION INDICATORS FOR AFSC 1A0X1
TAFMS GROUPS IN CURRENT STUDY TO PREVIOUS STUDY
(PERCENT MEMBERS RESPONDING)**

	1-48 MONTHS TAFMS	HS TAFMS	49-96 MON	49-96 MONTHS TAFMS	97+ MONT	97+ MONTHS TAPMS
	1A0X1	112X0	1A0X1	112X0	1A0X1	112X0
	(N=112)	(N=145)	(K71=N)	(N=202)	(M-300)	(CIAN)
EXPRESSED JOB INTEREST:						
DULL		7	7	e	4	_
CS-CS	4	en	_	4	9	4
INTERESTING	8	98	8	33	91	16
PERCEIVED USE OF TALENTS:						
NONE TO VERY LITTLE	٠,	7	4	۵	7	٠,
FAIRLY WELL TO PERFECT	95	%	*	16	92	ま
PERCEIVED USE OF TRAINING:						
NONE TO VERY LITTLE	•	က	7	4	9	7
FAIRLY WELL TO PERFECT	100	95	%	95	93	33
SENSE OF ACCOMPLISHMENT FROM JOB:						
DISSATISFIED	4	×۸	_	9	∞	7
NEUTRAL	9	9	7	7	7	\$0
SATISFIED	25	&	24	85	82	87
REENLISTMENT INTENTIONS			456666888888888888888888888888888888888			
WILL RETIRE	*	*	*	-	16	œ
NO OR PROBABLY NO	22	32	=	12	s.	→
YES OR PROBABLY YES	£	<i>L</i> 9	&	84	92	87

• :

Denotes less than 1 percent Columns may not add up to 100 percent due to rounding or nonresponse

TABLE 24

JOB SATISFACTION INDICATORS FOR AFSC 1A0X1 JOBS (PERCENT MEMBERS RESPONDING)**

	IN-FLIGHT REFUELER (ST0063)	BOOM OPERATOR- INSTRUCTOR/ EVALUATOR (ST0061)	FLIGHT MISSION SCHEDULER (ST0069)	COMMAND EVALUATOR (ST0077)	CCTS FLIGHT INSTRUCTOR (ST0075)
EXPRESSED JOB INTEREST: INTERESTING SO-SO DULL	3 %	£ 4 4 .	0 0 0	00 0 0	88 11 0
PERCEIVED USE OF TALENTS: NONE TO VERY LITTLE FAIRLY TO VERY WELL EXCELLENT TO PERFECT	4 59 37	5 50 44	0 57 43	13 38 50	0 4 8
PERCEIVED USE OF TRAINING: NONE TO VERY LITTLE FAIRLY WELL TO PERFECT EXCELLENT TO PERFECT	4 42 53	2 37 61	0 71 29	0 0 100	13 13 75
SENSE OF ACCOMPLISHMENT FROM JOB: SATISFIED NEUTRAL DISSATISFIED	26 4 4	3 8 89	86 0 14	75 0 25	88 11 0
REENLISTMENT INTENTIONS: WILL RETIRE NO OR PROBABLY NO YES OR PROBABLY YES	6 12 82	17 7 76	14 0 86	13 13 75	11 0 89

TABLE 24 (CONTINUED)

JOB SATISFACTION INDICATOF.S FOR AFSC 1A0X1 JOBS (PERCENT MEMBERS RESPONDING)**

-	SENIOR PROGRAM MANAGER (ST0020)	IN-FLIGHT REFUELING PROGRAM MANAGER (ST0030)	FLIGHT CHIEF (ST0047)	GROUND SCHEDULING (ST0054)	
EXPRESSED JOB INTEREST: INTERESTING SO-SO DULL	00 0	95 0	83 17 0	2 o 4	
PERCEIVED USE OF TALENTS: NONE TO VERY LITTLE FAIRLY TO VERY WELL EXCELLENT TO PERFECT	0 67 33	0 62 3 8	17 33 38	40 20 40	
PERCEIVED USE OF TRAINING: NONE TO VERY LITTL FAIRLY WELL TO PERFECT EXCELLENT TO PERFECT	0 83 17	0 43 57	0 50 50	40 20 20	
SENSE OF ACCOMPLISHMENT FROM JOB: DISSATISFIED SATISFIED NEUTRAL	100 0 0	86 14 0	83 0 17	80 20 0	
REENLISTMENT INTENTIONS: WILL RETIRE NO OR PROBABLY NO YES OR PROBABLY YES	17 0 83	10 5 86	67 0 33	20 40 40	

CCTS Flight Instructor job. The personnel expressing the least intent to reenlist were the Ground Scheduler incumbents. All jobs reported that they felt a sense of satisfaction from their work (the lowest positive indicator was 75 percent).

When there are serious problems in a career ladder, survey respondents are usually quite free with write-in comments to complain about perceived problems in the field. Eighteen percent of the survey sample used the write-in feature to convey some type of information, yet only 12 percent of the comments received (representing less than 2 percent of the total sample) could be characterized as complaints.

All of the write-in comments were about the Π , and not the career field. Most of the comments focused on how the word "average" was used to relate to time spent performing tasks.

IMPLICATIONS

This survey was intended to review the structure of the career ladder and to provide information to help direct potential training and organizational changes. The condition of the career field is very stable, from the structure, to the training, to the job satisfaction of the incumbents.

There are nine jobs in the career ladder, with a normal pattern of a decreasing number of personnel in jobs with more responsibility, with these individuals also having a greater TAFMS. With the reorganization of the Air Force, the initial training will change to include loadmaster training, but past that, there is expected to be very little change. As was true in the March 1983 OSR, job satisfaction in the In-Flight Refueling career ladder continues to be very high.

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APPENDIX A

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SENIOR PROGRAM MANAGER

TASK	S ·	PERCENT MEMBERS PERFORMING
B49	Write correspondence	100
A13	Plan briefings	100
G200	Perform operational checks on drogue air refueling systems	100
G199	Perform operational checks on boom air refueling systems	100
G213	Refuel receiver aircraft with drogue	100
E139	Participate in life support training seminars	100
F161	Coordinate operational work with other crew members	100
F170	Perform normal ground checklist procedures	100
E126	Maintain currency of flight manuals, safety and operational supplements, or flight crew checklists	100
G189	Monitor fuel panels	100
E138	Participate in general or specialized mission briefings	100
G195	Perform EMCON option-2 air refueling	100
G208	Perform preparation for contact checklist procedures for normal boom air refueling	100
G205	Perform postboom air refueling checklist procedures	100
G182	Act as in-flight safety observer	100
E127	Monitor radio communications	100
E128	Open or close crew entrance doors	100
E137	Participate in crew operation debriefings	100
G198	Perform normal in-flight checklists, other than air refueling	100
G211	Refuel receiver aircraft with boom refueling normal systems	100
E124	Instruct crew members or passengers on in-flight or ground emergency procedures	100
E129	Operate aircraft radios, such as intercom, interphone, AFSATCOM, or VHF	100
G188	Monitor flight instruments	100
E151	Secure equipment for flight operations	100
E153	Study TOs for abnormal, emergency ground, or in-flight procedures	100
G187	Monitor engine instruments	100
F185	Inform pilots of refueling operation status	100
F178	Remove or replace fuses or bulbs	100
G186	Interpret and use radio silent signals	100
G193	Perform droone air refueling abnormal procedures	100

TABLE A2 INFLIGHT REFUELING PROGRAM MANAGER

		PERCENT MEMBERS
TASK		PERFORMING
E127	Monitor radio communications	100
G195	Perform EMCON option-2 air refueling	100
G184	Direct receiver aircraft into refueling position using pilot director lights	100
E153	Study TOs for abnormal, emergency ground, or in-flight procedures	100
E126	Maintain currency of flight manuals, safety and operational supplements, or	100
	flight crew checklists	
G205	Perform postboom air refueling checklist procedures	100
E129	Operate aircraft radios, such as intercom, interphone, AFSATCOM, or VHF	100
E151	Secure equipment for flight operations	100
E124	Instruct crew members or passengers on in-flight or ground emergency	100
	procedures	
H239	Supervise load teams	100
G194	Perform emission control (EMCON) option-1 air refueling	100
G185	Inform pilots of refueling operation status	100
E138	Participate in general or specialized mission briefings	100
G186	Interpret and use radio silent signals	100
H240	Supervise passengers on missions	100
H229	Perform load planning for cargo or passenger missions	100
E128	Open or close crew entrance doors	100
F159	Brief flight crews concerning air refueling mission activities	100
H232	Position cargo in aircraft	100
E136	Participate in crew maintenance debriefings	100
All	Establish performance standards for subordinates	95
G211	Refuel receiver aircraft with boom refueling normal systems	95
G182	Act as in-flight safety observer	95
G189	Monitor fuel panels	95
G208	Perform preparation for contact checklist procedures for normal boom air refueling	95
C107		95
G187	Monitor engine instruments	95 95
E137	Participate in crew operation debriefings	95 95
E121	Inspect personal equipment	95 95
H238	Secure cargo Perform normal ground sheeklint procedures	95 05

FLIGHT CHIEF

TASK	S	PERCENT MEMBERS PERFORMING
H232	Position cargo in aircraft	100
H224	Inspect cargo for air transport	100
E120	Demonstrate to passengers the proper use of life support equipment	100
H223	Direct passengers loading or unloading	100
G184	Direct receiver aircraft into refueling position using pilot director lights	100
H239	Supervise load teams	100
H217	Brief load team personnel	100
E124	Instruct crew members or passengers on in-flight or ground emergency procedures	100
E127	Monitor radio communications	100
H240	Supervise passengers on missions	100
H236	Prepare aircraft for loading or unloading passengers	100
E119	Coordinate corrections of aircraft discrepancies or malfunctions with aircraft commanders	100
B44	Supervise In-Flight Refueling Operators (AFSC 11250)	100
E153	Study TOs for abnormal, emergency ground, or in-flight procedures	100
H238	Secure cargo	100
G185	Inform pilots of refueling operation status	100
E114	Advise maintenance personnel in identifying aircraft systems malfunctions	100
H235	Prepare aircraft for loading or unloading cargo	100
F172	Perform passenger briefings	100
G195	Perform EMCON option-2 air refueling	100
H222	Determine cargo for hazardous compatibility	100
E137	Participate in crew operation debriefings	100
E129	Operate aircraft radios, such as intercom, interphone, AFSATCOM, or VHF	100
E138	Participate in general or specialized mission briefings	100
G187	Monitor engine instruments	100
H234	Position loaders or elevators	100
E118	Attend aircrew refresher training	100
H237	Review preload cargo and passenger manifests	100
H219	Compute cargo restraint requirements	100
G188	Monitor flight instruments	100

GROUND SCHEDULING

TASK	S	PERCENT MEMBERS PERFORMING
E127	Monitor radio communications	100
G184	Direct receiver aircraft into refueling position using pilot director lights	100
G190	Operate air-conditioning controls	100
A 3	Coordinate operational work activities with other sections	100
E151	Secure equipment for flight operations	100
E128	Open or close crew entrance doors	100
G182	Act as in-flight safety observer	100
F159	Brief flight crews concerning air refueling mission activities	100
G189	Monitor fuel panels	100
E129	Operate aircraft radios, such as intercom, interphone, AFSATCOM, or VHF	100
G211	Refuel receiver aircraft with boom refueling normal systems	100
G195	Perform EMCON option-2 air refueling	100
E137	Participate in crew operation debriefings	100
G185	Inform pilots of refueling operation status	100
G208	Perform preparation for contact checklist procedures for normal boom air refueling	100
G187	Monitor engine instruments	100
G188	Monitor flight instruments	100
E124	Instruct crew members or passengers on in-flight or ground emergency procedures	100
E150	Pick up life support equipment	100
G198	Perform normal in-flight checklists, other than air refueling	100
F170	Perform normal ground checklist procedures	100
G210	Prepare for contact checklist procedures for tanker manual air refueling	130
G205	Perform postboom air refueling checklist procedures	100
E121	Inspect personal equipment	100
G199	Perform operational checks on boom air refueling systems	100
G212	Refuel receiver aircraft with boom refueling tanker manual operations	100
G186	Interpret and use radio silent signals	100
E138	Participate in general or specialized mission briefings	100
E136	Participate in crew maintenance debriefings	100
E156	Turn in life support equipment	100

TABLE AS BOOM OPERATOR-INSTRUCTOR/EVALUATOR

TASK	<u>s</u>	PERCENT MEMBERS PERFORMING
E127	Monitor radio communications	100
G184	Direct receiver aircraft into refueling position using pilot director lights	100
E129	Operate aircraft radios, such as intercom, interphone, AFSATCOM, or VHF	100
E128	Open or close crew entrance doors	100
G211	Refuel receiver aircraft with boom refueling normal systems	100
H240	Supervise passengers on missions	100
G186	Interpret and use radio silent signals	100
G205	Perform postboom air refueling checklist procedures	100
E133	Operate galley equipment	100
F172	Perform passenger briefings	100
G182	Act as in-flight safety observer	99
G188	Monitor flight instruments	99
E138	Participate in general or specialized mission briefings	99
H232	Position cargo in aircraft	99
E126	Maintain currency of flight manuals, safety and operational supplements, or	99
	flight crew checklists	
E124	Instruct crew members or passengers on in-flight or ground emergency procedures	99
H235	Prepare aircraft for loading or unloading cargo	99
G199	Perform operational checks on boom air refueling systems	99
G204	Perform or practice tanker air refueling breakaway procedures	99
G216	Verbally direct receiver aircraft into refueling position	99
H238	Secure cargo	99
G195	Perform EMCON option-2 air refueling	99
G187	Monitor engine instruments	99
H239	Supervise load teams	99
E137	Participate in crew operation debriefings	99
H231	Periodically check cargo restraints	99
H236	Prepare aircraft for loading or unloading passengers	99
G212	Refuel receiver aircraft with boom refueling tanker manual operations	99
G194	Perform emission control (EMCON) option-1 air refueling	99
E134	Order aircrew flight hunches	98

IN-FLIGHT REFUELER

		PERCENT
	_	MEMBERS
TASK	S	PERFORMING
G184	Direct receiver aircraft into refueling position using pilot director lights	99
E127	Monitor radio communications	99
E128	Open or close crew entrance doors	99
G211	Refuel receiver aircraft with boom refueling normal systems	99
H223	Direct passengers loading or unloading	99
G195	Perform EMCON option-2 air refueling	98
G205	Perform postboom air refueling checklist procedures	98
F172	Perform passenger briefings	98
E138	Participate in general or specialized mission briefings	98
H238	Secure cargo	98
E129	Operate aircraft radios, such as intercom, interphone, AFSATCOM, or VHF	· 98 ·
E137	Participate in crew operation debriefings	98
E126	Maintain currency of flight manuals, safety and operational supplements, or	98
	flight crew checklists	
G204	Perform or practice tanker air refueling breakaway procedures	98
H219	Compute cargo restraint requirements	97
G212	Refuel receiver aircraft with boom refueling tanker manual operations	97
G210	Prepare for contact checklist procedures for tanker manual air refueling	97
E120	Demonstrate to passengers the proper use of life support equipment	97
H232	Position cargo in aircraft	97
E125	Load crew gear on aircraft	97
G185	Inform pilots of refueling operation status	97
G198	Perform normal in-flight checklists, other than air refueling	97
G187	Monitor engine instruments	97
E136	Participate in crew maintenance debriefings	97
G194	Perform emission control (EMCON) option-1 air refueling	97
H240	Supervise passengers on missions	97
G188	Monitor flight instruments	96
F175	Position professional equipment at boom operators forward stations	96
G186	Interpret and use radio silent signals	96
H236	Prepare air craft for loading or unloading passengers	96

FLIGHT MISSION SCHEDULER

TASK	S	PERCENT MEMBERS PERFORMING
G198	Perform normal in-flight checklists, other than air refueling	100
G195	Perform EMCON option-2 air refueling	100
G182		100
G211	Refuel receiver aircraft with boom refueling normal systems	100
F170	Perform normal ground checklist procedures	100
G204	Perform or practice tanker air refueling breakaway procedures	100
G188	Monitor flight instruments	100
G185	Inform pilots of refueling operation status	100
G208	Perform preparation for contact checklist procedures for normal boom air refueling	100
G189	Monitor fuel panels	100
G186	Interpret and use radio silent signals	100
G199	Perform operational checks on boom air refueling systems	100
G184	Direct receiver aircraft into refueling position using pilot director lights	100
G205	Perform postboom air refueling checklist procedures	100
G187	Monitor engine instruments	100
E153	Study TOs for abnormal, emergency ground, or in-flight procedures	100
E138	Participate in general or specialized mission briefings	100
E137	Participate in crew operation debriefings	100
E125	Load crew gear on aircraft	100
G194	Perform emission control (EMCON) option-1 air refueling	100
E151	Secure equipment for flight operations	
G212	Refuel receiver aircraft with boom aircraft with boom refueling tanker manual operations	100
G216	Verbally direct receiver aircraft into refueling position	100
G210	Prepare for contact checklist procedures for tanker manual air refueling	100
E130	Operate aircraft radios, such as intercom, interphone, AFSATCOM, or VHF	100
E127	Monitor radio communications	100
E128	Open or close crew entrance doors	100
E129	Operate aircraft radios, such as intercom, interphone, AFSATCOM, or VHF	100
F173	Perform sextant preflight checks	100
F141	Participate in permission weather briefings	100

CCTS FLIGHT INSTRUCTOR

TASKS		PERCENT MEMBERS PERFORMING
G182	Act as in-flight safety observer	100
G194	Perform emission control (EMCON) option-1 air refueling	100
E138	Participate in general or specialized mission briefings	100
E153	Study TOs for abnormal, emergency ground, or in-flight procedures	100
G189	Monitor fuel panels	100
E126	Maintain currency of flight manuals, safety and operational supplements, or flight crew checklists	100
F159	Brief flight crews concerning air refueling mission activities	100
G204	Perform or practice tanker air refueling breakaway procedures	100
E129	Operate aircraft radios, such as intercom, interphone, AFSATCOM, or VHF	100
D76	Administer tests	100
G188	Monitor flight instruments	100
E151	Secure equipment for flight operations	100
E136	Participate in crew maintenance debriefings	100
G185	Inform pilots of refueling operation status	100
E141	Participate in permission weather briefings	100
G198	Perform normal in-flight checklists, other than air refueling	100
G190	Operate air-conditioning controls	100
G192	Perform boom system emergency operations	100
G191	Perform boom air refueling abnormal procedures	100
G202	Perform or practice in-flight abnormal procedures	100
G187	Monitor engine instruments	100
E128	Open or close crew entrance doors	100
E130	Operate emergency escape hatches	100
G216	Verbally direct receiver aircraft into refueling position	100
F163	Inspect or operate auxiliary power units	100
G184	Direct receiver aircraft into refueling position using pilot director lights	100
G205	Perform postboom air refueling checklist procedures	100
F173	Perform sextant preflight checks	100
G203	Perform or practice in-flight emergency procedures	100
G199	Perform operational checks on boom air refueling systems	100

COMMAND EVALUATOR

TASK	s	PERCENT MEMBERS PERFORMING
G182	Act as in-flight safety observer	100
D97	Evaluate instructors	100
G211	Refuel receiver aircraft with boom refueling normal systems	100
G189	Monitor fuel panels	100
C50	Administer proficiency checks	100
G184	Direct receiver aircraft into refueling position using pilot director lights	100
G195	Perform EMCON option-2 air refueling	100
E127	Monitor radio communications	100
E125	Load crew gear on aircraft	100
G208	Perform preparation for contact checklist procedures for normal boom air refueling	100
G188	Monitor flight instruments	100
G187	Monitor engine instruments	100
G205	Perform postboom air refueling checklist procedures	100
E128	Open or close crew entrance doors	100
G198	Perform normal in-flight checklists, other than air refueling	100
E124	Instruct crew members or passengers on in-flight or ground emergency procedures	100
E130	Operate emergency escape hatches	100
F170	Perform normal ground checklist procedures	100
G212	Refuel receiver aircraft with boom refueling tanker manual operations	100
G185	Inform pilots of refueling operation status	100
G199	Perform operational checks on boom air refueling systems	100
G204	Perform or practice tanker air refueling breakaway procedures	100
F138	Participate in general or specialized mission briefings	100
E141	Participate in permission weather briefings	100
G186	Interpret and use radio silent signals	100
E120	Demonstrate to passengers the proper use of life support equipment	100
E150	Pick up life support equipment	100
E156	Turn in life support equipment	100
E137	Participate in crew operation debriefings	100
H240	Supervise passengers on missions	100