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TRAINING REPORT AIRCRAFT ARMAMENT SYSTEMS SPECIALTY AFS 1/1
462X0(U) AIR FORCE OCCUPATIONAL MEASUREMENT CENTER
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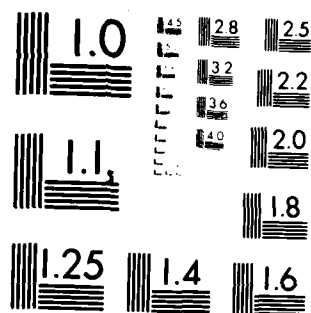
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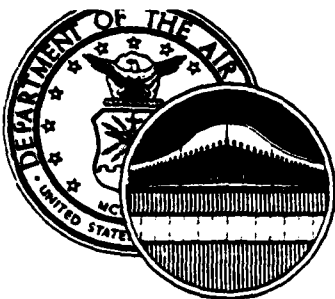
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UNITED STATES AIR FORCE

OCCUPATIONAL SURVEY REPORT



TRAINING REPORT

AIRCRAFT ARMAMENT SYSTEMS SPECIALTY

AFS 462X0

AFPT 90-462-418

MAY 1983

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OCCUPATIONAL ANALYSIS PROGRAM
USAF OCCUPATIONAL MEASUREMENT CENTER
AIR TRAINING COMMAND
RANDOLPH AFB, TEXAS 78150

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PREFACE

This report presents the results of a detailed Air Force Occupational Survey involving the training requirements for first-term airmen in the Aircraft Armament Systems specialty (AFS 462X0). The survey was requested at a Utilization and Training Workshop held at Lowry AFB in September 1979. Authority for conducting specialty surveys is contained in AFR 35-2, paragraph 2-1. Computer outputs from which this report was produced are available for use by training and management officials.

The survey instrument used in this project was developed by Captain Gary K. Patterson, Inventory Development Specialist. Captain Frederick W. Gibson and Chief Master Sergeant Theodore R. Wilcox analyzed the survey data, and Captain Frederick W. Gibson wrote the basic Occupational Survey Report dated November 1981. The computer programmer for this study was Ms Olga Velez. Lieutenant John G. Tierney analyzed the training data and wrote this Training Report, which has been reviewed and approved by Mr. Paul N. DiTullio, Chief, Management Applications Section, Occupational Analysis Branch, USAF Occupational Measurement Center, Randolph AFB, Texas 78150.

Copies of this report are available to Air Staff sections, major commands and other interested training and management personnel upon request to the USAF Occupational Measurement Center, attention to the Chief, Occupational Analysis Branch (OMY), Randolph AFB, Texas 78150.

This report has been reviewed and is approved.

PAUL T. RINGENBACH, Colonel, USAF
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SUMMARY OF RESULTS

1. REPORT OBJECTIVE: The purpose of this report is to provide occupational survey data for use in validating or modifying current Aircraft Armament Systems training documents and programs involving first-enlistment 462X0 personnel.
2. SURVEY COVERAGE: Job inventory booklets were administered to Aircraft Armament Systems personnel worldwide. Results are based on the responses from 4,753 incumbents (42 percent of assigned personnel). A majority (92 percent) of the incumbents surveyed were assigned to TAC, USAFE, SAC, or PACAF. General 462X0 training emphasis ratings were collected from 77 senior 462X0 technicians to help identify training requirements.
3. TRAINING ANALYSIS: Survey data highlighted some basic functions of apprentice 462X0 personnel appropriate for resident course training. In addition, while the trend in the data indicated that the channelized training system works, there were considerable deviations.
4. STS 462X0: Although the 462X0 specialty training standard provides good coverage of most functions, training managers should consider a thorough review of aircraft-specific data to ensure the most appropriate training methods are used when preparing individuals for their jobs. . .
5. POI 3AQR462X0: Course managers should review survey data matched to the 462X0 Plans of Instruction, because the data indicate some tasks currently taught at the technical training school may be trained more effectively through FTD or OJT programs. Also, some job inventory tasks not matched to the POIs should be evaluated for possible inclusion in the POIs, because training emphasis ratings, task difficulty ratings, and percent members performing data, indicate the tasks may be valid candidates for resident training.
6. DISCUSSION: The survey data in this report and the attached 462X0 Training Extracts provide information for general and shredout-specific aircraft armament job functions and have broad implications for resident, follow-on FTD, and OJT training programs. Because of the complex structure of the 462X0 specialty, survey data should be useful in assessing and coordinating training requirements to develop a fully integrated 462X0 training program.



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462X0 TRAINING REPORT AIRCRAFT ARMAMENT SYSTEMS SPECIALTY

INTRODUCTION

This is a report of a training analysis of the Aircraft Armament Systems (AFS 462X0) specialty, completed by the Occupational Analysis Branch, USAF Occupational Measurement Center, in February 1983. The analysis was initiated as a result of a Utilization and Training (U&T) Workshop in September 1979. Since the previous Occupational Survey Report (OSR) was written in 1976, prior to the U&T Workshop in 1979, the utilization and training of first-enlistment 462X0 personnel had changed due to the introduction of new weapons systems and the advent of technical school training channelized by aircraft. Therefore, this analysis provides data to help assess current Aircraft Armament Systems training documents and programs involving first-enlistment 462X0 personnel, based on data collected in late 1980. In addition, the feasibility of the shredout system and the adequacy of channelized training are examined.

Background

As outlined in the current AFR 39-1 Specialty Description, Aircraft Armament Systems personnel are responsible for loading nuclear and nonnuclear munitions, explosives, and propellant devices on aircraft. These incumbents may also maintain, install, modify, inspect, and repair aircraft bomb, rocket, and missile release, launch, suspension and monitor systems, gun and gun mounts, and related air munitions handling and loading equipment.

Historically, the 462X0 career ladder was created in 1951 as the Weapons Mechanic Speciality, consisting of DAFSCs 46230, 46250, 46270, and 46280 (at the 9-skill level). In 1957, 3- and 5-skill level personnel were subdivided into four shredouts. Each shred specialized in certain types of aircraft as follows:

- A - Bomber
- B - Fighter-Bomber
- C - Fighter Interceptor
- D - Small Arms

These shreds were dropped in 1959, and in 1960 the 9-skill level designation was changed from 46280 to 46290. No major changes occurred in the career field until 1978, when the designation for DAFSC 462X0 personnel changed to Aircraft Armament Systems, which remains today. Also in 1978, 10 shreds were developed for 3-skill level personnel; and these shreds were altered in 1980 to the following arrangement:

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- A - B-52D
- B - A-7
- C - A-10
- D - F-4
- E - F-15
- F - F-16
- G - F-106
- H - F-111
- J - FB-111
- K - B-52G/H
- Z - Other aircraft

Personnel desiring to enter the 462X0 specialty are oriented to technical publications, maintenance management, hand tools, safety, security, principles of electricity, and electrical troubleshooting, and then are taught specific information about the weapon system to which they will be initially assigned. Beyond the orientation phase, instruction is channelized and courses vary in academic length as follows:

- A - (B-52D): 40 days
- B - (A-7): 39 days
- C - (A-10): 23 days
- D - (F-4): 44 days
- E - (F-15): 38 days
- F - (F-16): 25 days
- G - (F-106): 43 days
- H - (F-111): 32 days
- J - (FB-111): 51 days
- K - (B-52G/H): 38 days
- Z - (Other aircraft): 26 days

Objectives

This report provides task data which training managers can use in conjunction with career ladder documents to assess the effectiveness of Aircraft Armament Systems training. Topics discussed in this report include: (1) survey development and administration; (2) representative tasks performed by first-enlistment 46230 personnel; and (3) assessment of the 462X0 STSs and POIs.

SURVEY METHODOLOGY

Inventory Development and Administration

The data collection instrument for this occupational survey was USAF Job Inventory AFPT 90-462-418. The inventory booklet was composed of two parts: a background information section in which job incumbents provided information about themselves and a duty-task list section which assessed the relative amount of time spent on tasks performed in their current jobs. The latter section consisted of 674 tasks grouped under 20 duty headings. Thorough research of publications and directives, and personal interviews with 48 subject-matter specialists at 14 bases, contributed to the development of the survey instrument.

Consolidated base personnel offices at operational units worldwide were sent inventory booklets for administration to 5,863 job incumbents holding the 462X0 DAFSC. Survey administration took place from July 1980 through December 1980. Completed job inventories were returned by 4,753 incumbents, which represents 42 percent of the personnel in the field at the time of administration. Special care was taken to ensure accurate representation in the survey sample by skill level, geographical area, and major command (MAJCOM).

After supplying identification and biographical information, incumbents checked and rated the tasks performed in their current job. Tasks were rated on a 9-point scale, showing relative time spent on each task compared to all other tasks performed in the current job. Verbal anchors were provided for each point on the scale. The scale used was as follows:

<u>RATING</u>	<u>TIME SPENT</u>
1	Very small amount
2	Much below average
3	Below average
4	Slightly below average
5	About average
6	Slightly above average
7	Above average
8	Much above average
9	Very large amount

Respondents were instructed not to rate tasks they did not perform in their current job. This information was used to compare personnel based on the types of tasks they performed and the relative amount of time they spent performing those tasks. The job inventory data provided the basis for analyzing the job structure of the 462X0 specialty and making comparisons between DAFSC groups, CONUS-Overseas groups, and job satisfaction indicators. A summary of the analyses of the data was presented in the Occupational Survey Report (OSR) for the Aircraft Armament Systems Specialty, AFPT 90-462-418, dated November 1981. In addition to using job inventory

data for the OSR, percent members performing data for first-enlistment 46230 shredout groups are also presented in this report, along with task factor data explained below.

Task Factor Administration

To enhance the training managers ability to make decisions, task difficulty and training emphasis booklets were administered to selected groups of senior DAFSC 462X0 personnel. Although the task listings in the job inventory and task factor booklets were identical, task difficulty and training emphasis booklets were processed separately because of the different types of information gathered. A brief explanation of these rating factors and their application follows.

Task Difficulty (TD). Task difficulty data were independently collected from 50 experienced Aircraft Armament Systems Technicians during the same period job inventory booklets were administered. Each NCO who completed a task difficulty booklet was asked to rate all tasks with which he or she was familiar on the nine-point scale shown here.

<u>RATING</u>	<u>TASK DIFFICULTY</u>
1	Extremely Low
2	Very Low
3	Low
4	Below Average
5	Average
6	Above Average
7	High
8	Very High
9	Extremely High

Difficulty was defined as the length of time required for an average career field member to learn to perform that task. Agreement among the 50 DAFSC 462X0 raters as to the difficulty of tasks was high. These ratings were adjusted so tasks of average difficulty have a value of 5.00. The resulting data are an ordering of tasks indicating a degree of difficulty for each task in the inventory. In general, tasks with ratings above 6.00 are difficult to learn to perform and tasks with ratings below 4.00 are easy to learn to perform. Tasks with ratings between 4.00 and 6.00 are in the average difficulty range.

Training Emphasis. NCOs who completed training emphasis booklets were asked to rate all inventory tasks on a 10-point scale as follows:

<u>RATING</u>	<u>RECOMMENDED TRAINING EMPHASIS</u>
0	No Training Required
1	Extremely Low
2	Very Low
3	Low
4	Below Average
5	Average
6	Above Average
7	High
8	Very High
9	Extremely High

Training emphasis is a rating of tasks indicating where emphasis should be placed in structured training for first-term personnel. Structured training is defined as resident training schools, Field Training Detachments (FTD), Mobile Training Teams (MTT), formal OJT, or any other organized training method. Training emphasis data were independently solicited from experienced 7- or 9-skill level personnel stationed worldwide. Interrater agreement among these raters was very high.

Task difficulty and training emphasis ratings provide objective data which should be used, along with percent members performing information, when making training decisions. Percent members performing data provide information on who is performing each task. Task difficulty ratings give information as to which tasks may require more time to train, and training emphasis indicates what tasks should be considered for structured training. Using these factors in conjunction with appropriate training documents and directives, managers can tailor training programs to reflect the needs of the user by more effectively determining when, where, and how to train first-enlistment 462X0 airmen.

TRAINING ANALYSIS

A primary concern for managers of any specialty involves developing the most efficient and effective training programs by which career ladder incumbents learn to perform their jobs. Information provided in this report which can be used to assess training requirements includes: (1) percent of 462X0 first-enlistment respondents performing tasks; (2) training emphasis data; and (3) task difficulty ratings. Although this information is useful in evaluating training needs for personnel in various 462X0 skill level and experience (TAFMS) groups, this report emphasizes data on first-term Aircraft Armament Systems Specialists.

Analysis of First-Enlistment Personnel

An analysis of jobs and tasks which first-enlistment (1-48 months TAFMS) survey respondents performed was made to determine the basic functions of apprentice 462X0 personnel. Various types of background information for first-enlistment personnel were examined and are presented in Table 1. These survey respondents performed an average of 61 tasks; 55 percent were assigned to TAC, 41 percent worked on day shifts, and 38 percent worked swing or mid-shifts. As shown in Table 2, analysis of test equipment usage indicates first-enlistment respondents were likely to use torque wrenches, multimeters (AN/PSM-6 or AN/PSM-37), go/no-go gauges, and missile launcher test sets (ASM-11).

Responses from first-enlistment personnel were also examined to determine common tasks performed and various background information. Table 3 lists those tasks performed by the greatest percentages of DAFSC 462X0 first-enlistment incumbents. Generally, the most commonly performed tasks involved some of the simpler maintenance and technical functions (such as, remove and install pylons or adapters, arm or disarm aircraft armament systems, perform operational checks of jettison and emergency release systems, and remove or install bomb or ejector racks), as well as the general duty tasks (such as, perform foreign object damage (FOD) prevention walks, clean facilities, and operate light-alls).

Figure 1 displays the distribution of first-term respondents across functional job groups identified in the November 1981 Aircraft Armament Systems Specialty OSR. Although most respondents performed armament system-related activities (i.e., Conventional Munitions Loader, Heavy Aircraft Weapons Loader, and Junior Tactical Aircraft Systems Technicians), approximately six percent of the first-enlistment incumbents were assigned to Supply jobs which did not involve armament systems loading or servicing functions. The fact that 462X0 personnel could be assigned to any of these types of functions indicates the complex training situation confronting managers today.

Analysis of Channelized Training

To examine the impact of channelized training, the percentages of graduates of each of the 46230 shredout courses working on the aircraft for which they were trained were examined. One limitation of this analysis is

that DAFSC 462X0 personnel lose their shred upon attaining the 5-skill level, and, as a result, sample sizes were not very large. Nevertheless, some valid conclusions were possible based on the survey data.

As can be seen in Table 4, many survey respondents maintained or serviced aircraft trained in the courses which award the corresponding shredouts. For example, 85 percent of the individuals surveyed with a C-shred maintained the A-10A, and 10 percent maintained the A-10B. Further, 73 percent of the E-shred personnel in the sample maintained the F-15A/B, and 53 percent maintained the F-15C/D. Therefore, personnel with these shredouts appeared to be well utilized.

Tasks performed by members with other shreds, however, were not as clearly delineated; and generally these survey respondents were not performing as many system-specific tasks (see Table 5). For example, 38 percent of the B-shred personnel maintained F-4Ds, although personnel with this shred are responsible for the A-7. Similarly, 37 percent of the F-shred individuals maintain the F-4Ds, although this shred is associated with the F-16.

Therefore, two considerations make analysis of DAFSC 462X0 personnel with different shredouts difficult. First, the number of survey respondents with each shred was not large. Second, personnel in several shreds maintained aircraft other than those for which their shredout was designed. As a result, although trends in the data indicated that the channelized training system works, it was not absolutely so and there were considerable deviations. Perhaps channelization by aircraft family, as opposed to channelization by shreds, is what actually existed.

TABLE 1

SELECTED BACKGROUND INFORMATION FOR FIRST-ENLISTMENT
(1-48 MONTHS TAFMS) AFS 462X0 PERSONNEL

<u>VARIABLE</u>	<u>DATA</u>
AVERAGE NUMBER OF TASKS PERFORMED	61
PAYGRADE	E-3, E-4
MAJOR COMMAND DISTRIBUTION	
AAC	2%
MAC	-
PACAF	7%
AFLC	-
SAC	17%
AFSC	2%
TAC	55%
ATC	1%
USAFE	15%
WORKING DAY SHIFT	41%
WORKING SWING OR MID-SHIFT	38%
WORKING ROTATING EIGHT-HOUR SHIFT	16%
WORKING 12-HOUR SHIFT	1%

TABLE 2

EQUIPMENT USED BY 30 PERCENT OR MORE OF FIRST-ENLISTMENT
(1-48 MONTHS TAFMS) AFS 462X0 PERSONNEL

<u>TEST EQUIPMENT</u>	<u>PERCENT USING</u>
TORQUE WRENCHES	83
MULTIMETERS, AN/PSM-6 OR AN/PSM-37	72
GO/NO-GO GAUGES	47
MISSILE LAUNCHER TEST SETS, ASM-11	33

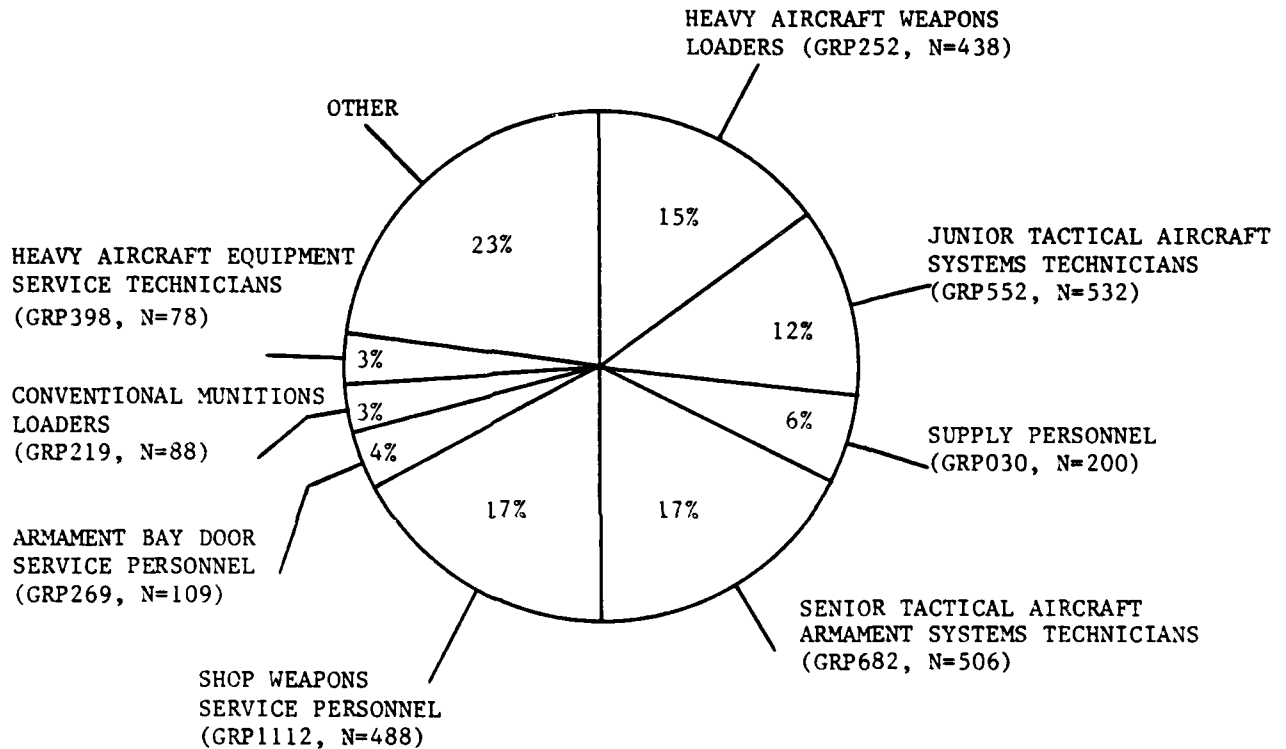
TABLE 3

REPRESENTATIVE TASKS PERFORMED BY FIRST-ENLISTMENT
(1-48 MONTHS TAFMS) AFS 462X0 PERSONNEL

TASKS	PERCENT
	<u>MEMBERS PERFORMING</u>
	<u>1-48 MONTHS TAFMS</u>
	<u>(N=2,914)</u>
PERFORM FOREIGN-OBJECT DAMAGE (FOD) PREVENTION WALKS	64
REMOVE OR INSTALL PYLONS OR ADAPTERS	61
ARM OR DISARM AIRCRAFT ARMAMENT SYSTEMS	60
CLEAN FACILITIES	59
PERFORM OPERATIONAL CHECKS OF JETTISION AND EMERGENCY RELEASE SYSTEMS	59
REMOVE OR INSTALL BOMB OR EJECTOR RACKS	58
REMOVE OR INSTALL IMPULSE CARTRIDGES	56
PERFORM FUNCTIONAL CHECKS OF AIRCRAFT ARMAMENT CIRCUITS	56
OPERATE LIGHT-ALLS	55
REMOVE OR INSTALL MISSILE LAUNCHERS	53
MAKE ENTRIES ON MAINTENANCE DATA COLLECTION RECORDS FORMS (AFTO FORMS 349)	49
PERFORM OPERATIONAL CHECKS OF CONVENTIONAL BOMBING SYSTEMS	49
LOAD CONVENTIONAL MUNITIONS OTHER THAN AMMUNITION ONTO AIRCRAFT	46
PERFORM CONVENTIONAL MUNITIONS PREPARATIONS FOR LOADING ONTO AIRCRAFT	41
ISSUE OR RECEIVE TOOLS	41
UNLOAD CONVENTIONAL MUNITIONS OTHER THAN AMMUNITIONS FROM AIRCRAFT	41
INSPECT EXTERNAL BOMB OR EJECTOR RACK STRUCTURAL COMPONENTS	41
LOAD OR UNLOAD AMMUNITION INTO OR FROM INTERNAL GUN SYSTEMS	40
INITIATE REPARABLE ITEM PROCESSING TAG FORMS (AFTO FORMS 350)	40
INSPECT, CLEAN, AND LUBRICATE EXTERNAL BOMB OR EJECTOR RACK MECHANICAL COMPONENTS	40
INSPECT BOMB OR EJECTOR RACKS	40
INSPECT EXTERNAL BOMB OR EJECTOR RACK ELECTRICAL SYSTEMS	40
PERFORM MUNITIONS POSTLOAD INSPECTIONS	39
PERFORM FUNCTIONAL CHECKS OF INTERNAL GUN ELECTRICAL SYSTEMS	38
MAINTAIN COMMON HAND TOOLS	38

FIGURE 1

PERCENTAGES OF FIRST-ENLISTMENT DAFSC 462XO PERSONNEL IN
JOBS IDENTIFIED IN THE CAREER LADDER STRUCTURE
(TOTAL FIRST-ENLISTMENT N=2,914)



*GRPXXX REPRESENTS THE NUMBER USED TO IDENTIFY THE GROUP IN THE COMPUTER
PROGRAM EMPLOYED FOR CAREER LADDER STRUCTURE ANALYSIS

TABLE 4

AFS 462X0 SHREDOUT IN WHICH MOST PERSONNEL MAINTAINED
SHREDOUT-SPECIFIC WEAPON SYSTEMS

<u>SHREDOUT</u>	<u>WEAPON SYSTEM MAINTAINED</u>
C (A-10)	85% A-10A, 10% A-10B
H (F-111)	54% F-111E, 32% F-111D, 25% F-111F
J (FB-111)	78% FB-111A
K (B-52G/H)	73% B-52G, 27% B-52H
O (F-4)	53% F-4E, 38% F-4D, 16% F-4C
E (F-15)	73% F-15A/B, 53% F-15C/D

TABLE 5

AFS 462X0 SHREDOUTS IN WHICH MANY PERSONNEL MAINTAINED
OTHER THAN SHREDOUT-SPECIFIC WEAPON SYSTEMS

<u>SHREDOUT</u>	<u>WEAPON SYSTEM MAINTAINED</u>
A (B-52D)	50% B-52D, 39% B-52G, 22% B-52H
B (A-7)	62% A-7D, 38% A-10A, 38% F-4D, 38% F-16
F (F-16)	67% F-16, 37% F-4D, 15% F-4E
G (F-106)	79% F-106A, 79% F-106B, 29% F-101B, 21% T-33

TABLE 6
MAJCOM DISTRIBUTION OF SENIOR 462X0 PERSONNEL WHO
PROVIDED TRAINING EMPHASIS RATINGS
(N=77)

<u>MAJCOM</u>	<u>PERCENT OF 462X0 ASSIGNED PERSONNEL</u>	<u>PERCENT OF 462X0 TRAINING EMPHASIS RATERS</u>
TAC	48	53
USAFE	19	23
SAC	15	16
PACAF	8	*
ATC	1	4
OTHER	<u>9</u>	<u>5</u>
TOTAL	100	101**

* LESS THAN ONE PERCENT
** DUE TO ROUNDING ERROR

TASK FACTOR APPLICATION

As discussed in the INTRODUCTION, task factor booklets were sent to 462X0 technicians to obtain training emphasis and difficulty ratings for tasks in the 462X0 job inventory. These rating factors were collected for training managers to use in conjunction with percent performing data to help evaluate career ladder training documents and training programs relative to task performance requirements of career ladder incumbents.

Training Emphasis (TE)

The relative training emphasis ratings for each task in the job inventory were collected from 77 experienced 7- and 9-skill level Aircraft Armament Systems NCOs. Table 6 shows the MAJCOM distribution of 462X0 training emphasis raters. Training in this case refers to structured training, such as formal classroom instruction, OJT, FTD, or mobile training team. The average values for these ratings were arranged to produce an ordered listing of all tasks in terms of the recommended training emphasis for first-enlistment personnel. The agreement among raters was sufficiently high to indicate the values were reliable and valid. The average of the training emphasis ratings was 3.1 with a standard deviation of 1.86. Therefore, a task with a rating of 5.0 or higher is considerably above average in training emphasis. (**NOTE: Training emphasis information is general in nature and not shredout-specific.)

In Table 7 are listed those tasks which senior DAFSC 462X0 personnel rated as most needing to be trained. Generally, these tasks constituted the basic job of the armament systems operations and maintenance personnel surveyed. Common among these tasks are various systems checks, loading weapons or munitions, removing or installing basic systems components, bench checks, and common systems inspections.

Most noteworthy is that, among the tasks receiving high training emphasis ratings, bomb and ejector racks and nuclear weapons or equivalent training items were the most common. Consistent with the high training emphasis ratings is the fact that most tasks listed in Table 7 were performed by significant percentages of first-enlistment personnel. The range of these percentages is 18 to 61 percent, but most of these tasks were performed by well over 30 percent of the incumbents. This is especially important considering the diversity of the 462X0 field, and suggests a core of tasks that cut across several highly dissimilar aircraft armament systems jobs.

Task Difficulty

From a listing of the airmen identified in the 462X0 survey, incumbents in the 7- and 9-skill levels from various commands were selected to rate the difficulty of each task in the job inventory. Difficulty was defined as the length of time it takes an average incumbent to learn to do the task. Interrater agreement among the 58 raters who returned booklets was very high, indicating the data were consistent and reliable. Ratings were adjusted

so tasks of average difficulty had a rating of 5.00 and a standard deviation of 1.00. Therefore, tasks with difficulty ratings of 6.00 or higher are considerably above average in difficulty. Table 8 presents the MAJCOM distribution of 462X0 task difficulty raters. (**NOTE: task difficulty information is general in nature and not shredout-specific.)

Tasks rated highest in difficulty, regardless of the numbers of first-term airmen performing them, are listed in Table 9. These tasks are almost exclusively composed of troubleshooting procedures associated with various armament systems and components. Generally, the other tasks in this difficulty category are supervisory in nature and include writing staff studies and papers, drafting budgets, and directing mobility exercises or operations.

Table 10 lists those tasks rated below average in difficulty. It is evident that the majority of below-average difficulty tasks consist of general duty functions, general weapon loading and release, or administrative functions.

TABLE 7

TASKS RATED HIGHEST IN TRAINING EMPHASIS
BY SENIOR 462X0 PERSONNEL

TASKS	TRAINING EMPHASIS RATING*	PERCENT OF FIRST-ENLISTMENT PERSONNEL PERFORMING (N=2,914)
MAKE ENTRIES ON MAINTENANCE DATA COLLECTION RECORD FORM (AFTO FORM 349)	6.79	49
LOCATE PARTS NUMBERS FROM ILLUSTRATED PARTS BREAKDOWN	6.75	34
PERFORM OPERATIONAL CHECKS OF JETTISON AND EMERGENCY RELEASE SYSTEMS	6.58	59
PERFORM OPERATIONAL CHECKS OF CONVENTIONAL BOMBING SYSTEMS	6.55	49
PERFORM FUNCTIONAL CHECKS OF AIRCRAFT ARMAMENT CIRCUITS	6.53	56
REMOVE OR INSTALL PYLONS OR ADAPTERS	6.47	61
LOAD NUCLEAR WEAPONS OR EQUIVALENT TRAINING ITEMS ONTO AIRCRAFT	6.43	33
ARM OR DISARM AIRCRAFT ARMAMENT SYSTEMS	6.38	60
REMOVE OR INSTALL BOMB OR EJECTOR RACKS	6.36	58
REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS RELEASE SYSTEM MECHANICAL COMPONENTS	6.30	19
BENCH CHECK BOMB RACKS	6.25	18
INSPECT EXTERNAL BOMB OR EJECTOR RACK ELECTRICAL SYSTEMS	6.22	40
LOAD CONVENTIONAL MUNITIONS OTHER THAN AMMUNITION ONTO AIRCRAFT	6.20	46
RECONFIGURE SUSPENSION, LAUNCH, AND RELEASE SYSTEMS	6.18	34
INSPECT EXTERNAL BOMB OR EJECTOR RACK STRUCTURAL COMPONENTS	6.17	41
ANNOTATE MAINTENANCE DISCREPANCY AND WORK DOCUMENT FORMS (AFTO FORM 781A)	6.14	31
ASSEMBLE OR DISASSEMBLE BOMB OR EJECTOR RACK COMPONENTS	6.14	21
PERFORM FUNCTIONAL CHECKS OF INTERNAL GUN ELECTRICAL SYSTEMS	6.14	38
REMOVE OR INSTALL IMPULSE CARTRIDGES	6.14	56
CLEAR MALFUNCTIONED OR JAMMED INTERNAL GUN SYSTEMS	6.12	28
REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS MONITOR, CONTROL, OR RELEASE SYSTEM ELECTRICAL COMPONENTS	6.10	18
PERFORM MUNITIONS POSTLOAD INSPECTIONS	6.09	39
REMOVE OR INSTALL MISSILE LAUNCHERS	6.07	53
INSPECT, CLEAN, AND LUBRICATE EXTERNAL BOMB OR EJECTOR RACK MECHANICAL COMPONENTS	6.04	40
PERFORM CONVENTIONAL MUNITIONS PREPARATIONS FOR LOADING ONTO AIRCRAFT	6.04	41

*SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, TASKS WITH RATINGS OF 5.00 OR HIGHER ARE CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS

TABLE 8
MAJCOM DISTRIBUTION OF SENIOR 462X0 PERSONNEL WHO
PROVIDED TASK DIFFICULTY RATINGS
(N=58)

<u>COMMAND</u>	<u>PERCENT OF ASSIGNED PERSONNEL</u>	<u>PERCENT OF TASK DIFFICULTY RATERS</u>
TAC	48	47
USAFE	19	21
SAC	15	14
PACAF	8	3
ATC	1	9
OTHER	<u>9</u>	<u>7</u>
TOTAL	100	101*

* DUE TO ROUNDING ERROR

TABLE 9

SELECTED TASKS RATED ABOVE AVERAGE IN DIFFICULTY BY SENIOR 462X0 PERSONNEL

TASKS	TASK DIFFICULTY INDEX**	PERCENT FIRST-ENLISTMENT 462X0 PERSONNEL PERFORMING
TROUBLESHOOT AIRCRAFT NUCLEAR WEAPONS MONITOR AND CONTROL SOLID-STATE CIRCUIT SYSTEMS	7.63	6
TROUBLESHOOT MISSILE LAUNCH AND CONTROL SOLID-STATE CIRCUIT SYSTEMS	7.62	5
WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS	7.41	1
TROUBLESHOOT ARMAMENT BAY DOOR SOLID-STATE CIRCUIT SYSTEMS	7.41	1
TROUBLESHOOT FAULT ISOLATION RECORD TAPE (FIRT) SYSTEMS	7.28	1
TROUBLESHOOT FLARE, PHOTOFLASH, OR CHAFF DISPENSING SOLID-STATE CIRCUIT SYSTEMS	7.23	1
TROUBLESHOOT CONVENTIONAL BOMBING SOLID-STATE CIRCUIT SYSTEMS	7.22	9
DRAFT BUDGET OR FINANCIAL REQUIREMENTS	7.20	1
TROUBLESHOOT CHEMICAL RELEASE SOLID-STATE CIRCUIT SYSTEMS	7.19	1
DIRECT MOBILITY EXERCISES OR OPERATIONS	7.19	1
TROUBLESHOOT MISSILE COOLING SYSTEMS	7.18	2
TROUBLESHOOT RELEASE PULSE INDICATOR ELECTRICAL SYSTEMS	7.18	6
TROUBLESHOOT DISPENSER SOLID-STATE CIRCUIT SYSTEMS	7.11	2
TROUBLESHOOT AIRCRAFT NUCLEAR WEAPONS MONITOR AND CONTROL ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE	7.10	13
TROUBLESHOOT JETTISON OR EMERGENCY RELEASE SOLID- STATE CIRCUIT SYSTEMS	7.08	9

**SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TASK DIFFICULTY.

TABLE 10

TASKS RATED LOWEST IN TASK DIFFICULTY BY SENIOR 462X0 PERSONNEL

<u>TASKS</u>	<u>TASK DIFFICULTY INDEX</u>	<u>PERCENT FIRST-ENLISTMENT 462X0 PERSONNEL PERFORMING</u>
PERFORM FOREIGN OBJECT DAMAGE (FOD) PREVENTION WALKS	1.36	64
CLEAN FACILITIES	1.63	59
OPERATE MAINTENANCE STANDS	1.87	32
CLEAN BOMB LIFT TRUCKS	2.01	6
CLEAN MUNITIONS SUPPORT EQUIPMENT	2.16	9
CLEAN MUNITIONS HANDLING TRAILERS	2.19	8
TRANSPORT TEST EQUIPMENT OR UNITS TO OR FROM FLIGHTLINE	2.19	19
PLACE PLACARDS OR WARNINGS ON MUNITIONS TRANSPORT OR HANDLING EQUIPMENT	2.26	16
OPERATE LIGHT-ALLS	2.27	55
TOW NONPOWERED AGE	2.38	20
ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL	2.67	2
MAINTAIN COMMON HAND TOOLS	2.71	38
ISSUE OR RECEIVE TOOLS	2.76	41
OPERATE HEATERS	2.78	24
INITIATE TEMPORARY ISSUE RECEIPT FORMS (AF FORM 1297)	2.80	9

ANALYSIS OF TRAINING DOCUMENTS

Since the occupational survey data were gathered from career ladder incumbents, managers can use it to determine if the 462X0 Specialty Training Standards (STS) and the 3ABR46230 Plan of Instruction (POI) meet user needs. It is essential that these training documents reflect actual or desired utilization patterns because of the impact on preparing incumbents to perform their jobs.

To facilitate the use of percent members performing, training emphasis, and task difficulty data, subject-matter experts at Lowry Technical Training Center matched 462X0 job inventory tasks to related STS paragraphs and applicable POI blocks. Computerized matchings, called FACPRNTs (FCP), were then made for the STS and the POI, pairing percent performing, training emphasis, and task difficulty data for each task to the respective STS item(s) or POI block. Unmatched survey tasks are listed in the "Tasks Not Referenced" section of each STS or POI FACPRNT to help identify possible additional STS or POI requirements. The 462X0 Training Extract (Atch 1) provides a combination of STS and POI FACPRNTs by shredout, containing information for various Total Active Federal Military Service (TAFMS), DAFSC, and aircraft groups which managers can use to assess training needs and determine how to more effectively use training resources. When these FACPRNTs are used to assess training needs, it is important to know that only the percent members performing information is specific to each shredout. The training emphasis and task difficulty information is general in nature and not shredout-specific.

STS 462X0 (common). Paragraphs 1 through 14 of the 462X0 STS, dated February 1980, are common to all 462X0 shreds. An analysis of data associated with tasks matched to the common paragraphs indicated good coverage of the functions pertaining to 3-skill level personnel.

POI 3ABR46230 (common). Blocks I-IV of the 46230 POIs, dated 23 February 1981, are common to all of the 46230 shreds. As with the common portions of the STS, an analysis of data associated with tasks matched to the common areas indicated adequate coverage of the functions performed by apprentice aircraft armament systems personnel.

B-52D Training Documents

STS 462X0A. An analysis of data associated with tasks matched to paragraph 23 of the 462X0 STS indicated good coverage of the functions performed by 3-skill level survey respondents with the A-shred. Several items were identified, however, which may require review. STS subparagraph 23g(3)(b) contains tasks with above-average training emphasis and training difficulty ratings, that are performed by only small percentages of first-job or first-enlistment personnel (see Table 11). Conversely, Table 12 lists tasks performed by large percentages of A-shred personnel but not linked to specific STS references. Some of the tasks listed in Table 12 may not be associated with only the B-52D but, due to the large percentages of A-shred personnel performing the tasks, they warrant examination. Subject-matter specialists should review these STS items and tasks to determine whether changes are necessary.

POI 3ABR46230A. An analysis of data associated with tasks matched to POI 3ABR46230A, dated July 1980, showed, for the most part, that POI blocks and objectives were supported. In several blocks though, very small percentages of first-job and first-enlistment airmen performed tasks matched to POI items. Further, some tasks not linked to specific POI items were rated above average in recommended training emphasis and task difficulty, and were performed by over 30 percent of first-job and first-enlistment personnel. Although some of these selected "tasks not referenced" are not clearly B-52D unique, they should be examined for possible inclusion in the POI because of the large percentages of A-shred personnel who reported performing them. The tasks and POI references mentioned above are listed in Tables 13 and 14. As Table 13 shows, many tasks referenced to POI items were performed by few incumbents, but were rated above average in recommended training emphasis. This suggests that, while these tasks do require some formal training, perhaps the resident course is not the proper place to give the students the training. It is possible these tasks can most effectively be trained by OJT.

TABLE 11
SELECTED TASKS MATCHED TO STS 462X0A PERFORMED BY FEW
462X0A RESPONDENTS

STS PARAGRAPH	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
23g(3)(b)	J305 REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS MONITOR AND CONTROL SYSTEM ELECTRONIC COMPONENTS	5.32	5.90	9	16
23g(3)(b)	J306 REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS RELEASE SYSTEM ELECTRONIC COMPONENTS	5.21	5.80	7	16
23g(3)(b)	N491 INSPECT WEAPONS MONITOR AND CONTROL SYSTEM COMPONENTS	5.12	5.53	9	16

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

TABLE 12

SELECTED TASKS NOT REFERENCED IN STS 462X0A PERFORMED BY MORE
THAN 10 PERCENT OF 462X0A RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
K352 BENCH CHECK BOMB RACKS	6.25	4.99	24	28
K359 BENCH CHECK MULTIPLE EJECTOR RACKS, TRIPLE EJECTOR RACKS, OR BOMB RELEASE UNITS (MERS, TERS, BRUs)	5.99	5.07	22	25
K361 BENCH CHECK PYLONS	5.95	4.97	22	25
L418 LOAD OR UNLOAD AMMUNITION INTO OR FROM INTERNAL GUN SYSTEMS	5.87	4.36	16	26
K365 CLEAN AND KORROSION TREAT WEAPONS RELEASE COMPONENTS	5.87	4.10	33	31
I255 REMOVE OR REPLACE AIRCRAFT INSTALLED CANNON PLUGS	5.75	6.64	31	30
K373 OVERHAUL BOMB OR EJECTOR RACKS	5.68	5.57	24	24
I258 REMOVE OR REPLACE AIRCRAFT INSTALLED SWITCHES	5.66	5.55	16	21
I259 SPLICE OR REPLACE DEFECTIVE AIRCRAFT INSTALLED WIRING	5.65	6.17	13	18
K346 BENCH CHECK ARMAMENT SYSTEM ELECTRICAL UNIT CABLE	5.53	5.17	16	13
N484 INSPECT MULTIPLE EJECTOR RACKS (MERS), TRIPLE EJECTOR RACKS (TERS), OR BOMB RELEASE UNITS (BRUs)	5.48	4.97	33	33
K376 OVERHAUL MERS, TERS, OR BRUs	5.47	5.88	11	17
I257 REMOVE OR REPLACE AIRCRAFT INSTALLED RELAYS	5.26	6.11	20	27
K349 BENCH CHECK ARMAMENT SYSTEM MECHANICAL ACCESSORIES, SUCH AS HIGH DENSITY RACKS OR RELEASE UNITS	5.16	5.23	20	20
J304 REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS RELEASE SYSTEM WIRING HARNESES	5.14	6.59	13	16
P532 LOAD CONVENTIONAL MUNITIONS ONTO AIRCRAFT LOAD STANDS OR RACKS	4.73	4.24	36	26

TABLE 12 (CONTINUED)

SELECTED TASKS NOT REFERENCED IN STS 462X0A PERFORMED BY MORE
THAN 10 PERCENT OF 462X0A RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
N485 INSPECT PYLON BEAM MER ASSEMBLIES	3.91	4.73	33	27
T655 OPERATE FARM TRACTORS	3.62	3.14	44	38
T656 OPERATE FORKLIFTS	3.62	3.50	47	52

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF
5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF
6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

*** ADDITIONAL TASKS NOT REFERENCED CAN BE FOUND AT THE END OF THE STS COMPUTER
PRINTOUT IN THE 462X0A TRAINING EXTRACT.

TABLE 13

SELECTED TASKS MATCHED TO POI 3ABR46230A PERFORMED BY FEW 462X0A RESPONDENTS

POI BLOCK	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
V2a	S627	2.61	2.26	18	24
	PLACE PLACARDS OR WARNINGS ON MUNITIONS TRANSPORT OR HANDLING EQUIPMENT				
V6a	S618	3.05	4.78	22	26
	INSPECT NUCLEAR WEAPONS OR EQUIVALENT TRAINING ITEMS				
V13b	O510	4.73	3.75	13	16
	INSPECT MUNITIONS SUPPORT EQUIPMENT				
V13b	O509	4.36	3.80	24	19
	INSPECT MUNITIONS-HANDLING TRAILERS				
V1115c	J317				
	REMOVE OR REPLACE CONVENTIONAL BOMBING SYSTEM ELECTRICAL COMPONENTS				
V1115c	N490	5.60	5.16	16	24
	INSPECT WEAPONS ARMAMENT CONTROL SYSTEM COMPONENTS				
V1115c	J315	5.29	5.44	11	17
	REMOVE OR REPLACE CONVENTIONAL BOMBING SYSTEM ELECTRONIC COMPONENTS				
V1115c	K353	5.18	5.24	13	19
	BENCH CHECK BOMB RELEASE INTERVAL CONTROL (BRIC) UNITS				
V1115c	I292	4.90	5.99	11	11
	TROUBLESHOOT RELEASE PULSE INDICATOR ELECTRICAL SYSTEMS				
V1115c	J333	3.74	7.18	16	17
	REMOVE OR REPLACE RELEASE PULSE INDICATOR SYSTEM ELECTRICAL COMPONENTS				
IX2b	I273	3.31	5.46	11	12
	TROUBLESHOOT CONVENTIONAL BOMBING ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE				
IX2b	K394	6.03	6.82	16	25
	TROUBLESHOOT BOMB OR EJECTOR RACK ELECTRICAL COMPONENTS				
IX2b	K399	5.69	6.05	16	23
	TROUBLESHOOT PYLON ELECTRICAL COMPONENTS				
IX2b	K370	5.64	5.86	18	20
	ISOLATE MECHANICAL MALFUNCTIONS IN PYLONS OR ADAPTERS				
IX2b	K398	5.62	5.21	13	18
	TROUBLESHOOT PYLON ADAPTER ELECTRICAL COMPONENTS				
IX2b	K396	5.05	6.08	16	18
	TROUBLESHOOT HEAVY STORES ADAPTER BEAM ELECTRICAL SYSTEMS				
X3c	I260	3.95	5.94	18	23
	TROUBLESHOOT AIRCRAFT NUCLEAR WEAPONS MONITOR AND CONTROL ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE				
X3c	I262	5.65	7.10	18	26
	TROUBLESHOOT AIRCRAFT NUCLEAR WEAPONS RELEASE ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE				
X3c	I265	5.40	7.00	13	24
	TROUBLESHOOT ARMAMENT BAY DOOR ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE				
		4.30	6.51	7	9

TABLE 13 (CONTINUED)
 SELECTED TASKS MATCHED TO POI 3ABR46230A PERFORMED BY FEW 462X0A RESPONDENTS

POI BLOCK	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
X3d	J302 REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS MONITOR, CONTROL, OR RELEASE SYSTEM ELECTRICAL COMPONENTS	6.10	4.83	16	26
X3d	J305 REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS MONITOR AND CONTROL SYSTEM ELECTRONIC COMPONENTS	5.32	5.90	9	16
X3d	J306 REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS RELEASE SYSTEM ELECTRONIC COMPONENTS	5.21	5.80	7	16
X3d	N491 INSPECT WEAPONS MONITOR AND CONTROL SYSTEM COMPONENTS	5.12	5.33	9	16

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

TABLE 14

SELECTED TASKS NOT REFERENCED IN POI 3ABR46230A PERFORMED BY MORE
THAN 30 PERCENT OF 462X0A RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
K365 CLEAN AND CORROSION TREAT WEAPONS RELEASE COMPONENTS	5.87	4.10	33	31
I255 REMOVE OR REPLACE AIRCRAFT INSTALLED CANNON PLUGS	5.75	6.64	31	30
N484 INSPECT MULTIPLE EJECTOR RACKS (MERS), TRIPLE EJECTOR RACKS (TERS), OR BOMB RELEASE UNITS (BRUs)	5.48	4.97	33	33
P532 LOAD CONVENTIONAL MUNITIONS ONTO PRELOAD STANDS OR RACKS	4.73	4.24	36	26
N485 INSPECT PYLON BEAM MER ASSEMBLIES	3.91	4.73	33	27
T655 OPERATE FARM TRACTORS	3.62	3.14	44	38
T656 OPERATE FORKLIFTS	3.62	3.50	47	52

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS
CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS
CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

A-7 TRAINING DOCUMENTS

STS 462X0B. An analysis of data associated with tasks matched to paragraph 16 of the 462X0 STS revealed an item which subject-matter specialists should review to determine whether changes may be necessary. STS subparagraph 16g(3)(c) contains a task performed by few first-job or first-enlistment, B-shred personnel, and with average or above-average training emphasis and training difficulty ratings (see Table 15). On the other hand, Table 16 lists tasks performed by over 10 percent of B-shred personnel not referenced to an STS paragraph. The selected tasks presented in Table 16 should be examined for possible additions to the STS.

POI 3ABR46230B. An analysis of data associated with POI 3ABR46230B, dated July 1980, highlighted the following areas for further review by subject-matter specialists. First, Table 17 illustrates that POI objectives X3D and X4A both have tasks referenced to them which were performed by very small percentages of first-job and first-enlistment B-shred airmen. However, all tasks referenced to POI objectives X3D and X4A were rated above average in training emphasis and training difficulty and, therefore, seem to require some formal training. The combined factors of low percent members performing but above average training emphasis and training difficulty suggest that these tasks may be more efficiently trained by OJT, as opposed to technical training school. The other area recommended for review is the list of tasks in Table 18. These tasks were not referenced to POI items but were rated above average in recommended training emphasis and task difficulty, and were performed by over 30 percent of first-job and first-enlistment personnel. Because of the percentages of B-shred personnel who reported performing the selected tasks not referenced, the tasks should be examined for possible inclusion in the POI.

TABLE 15

SELECTED TASKS MATCHED TO STS 462X0B PERFORMED BY FEW 462X0B RESPONDENTS

PARAGRAPH	TASKS	PERCENT MEMBERS PERFORMING		
		TRAINING EMPHASIS*	TASK DIFFICULTY**	FIRST- JOB ENLISTMENT
16g(3)(c)	J324 REMOVE OR REPLACE MISSILE LAUNCH AND CONTROL SYSTEM ELECTRONIC COMPONENTS	4.13	5.39	9 10

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

TABLE 16

SELECTED TASKS NOT REFERENCED IN STS 462XOB PERFORMED BY MORE
THAN 10 PERCENT OF 462XOB RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
J297 RECONFIGURE SUSPENSION, LAUNCH, AND RELEASE SYSTEMS	6.18	4.70	35	41
L407 CLEAR MALFUNCTIONED OR JAMMED INTERNAL GUN SYSTEMS	6.12	6.33	39	55
K365 CLEAN AND CORROSION TREAT WEAPONS RELEASE COMPONENTS	5.87	6.33	31	33
I274 TROUBLESHOOT CONVENTIONAL BOMBING MECHANICAL SYSTEMS	6.03	6.24	20	36
H239 PERFORM OPERATIONAL CHECKS OF AIRCRAFT NUCLEAR WEAPONS MONITOR AND CONTROL SYSTEMS	5.91	5.57	15	11
L439 TROUBLESHOOT INTERNAL GUN MECHANICAL SYSTEMS	5.87	5.89	19	38
I255 REMOVE OR REPLACE AIRCRAFT INSTALLED CANNON PLUGS	5.75	6.64	33	40
L404 CLEAN AND LUBRICATE AIRCRAFT GUN COMPARTMENTS, GUN BAYS, OR BLAST FAIRINGS	5.69	4.06	33	50
I258 REMOVE OR REPLACE AIRCRAFT INSTALLED SWITCHES	5.66	5.55	31	32
I259 SPlice OR REPLACE DEFECTIVE AIRCRAFT INSTALLED WIRING	5.65	6.17	26	31
I260 TROUBLESHOOT AIRCRAFT NUCLEAR WEAPONS MONITOR AND CONTROL ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE	5.65	7.10	11	8
K399 TROUBLESHOOT PYLON ELECTRICAL COMPONENTS	5.64	5.86	13	18
K370 ISOLATE MECHANICAL MALFUNCTIONS IN PYLONS OR ADAPTERS	5.62	5.21	11	13
I284 TROUBLESHOOT JETTISON OR EMERGENCY RELEASE MECHANICAL SYSTEMS	5.53	6.05	22	33
K376 OVERHAUL MERS, TERS, OR BURS	5.47	5.88	19	17
I257 REMOVE OR REPLACE AIRCRAFT INSTALLED RELAYS	5.26	6.11	22	22
N478 INSPECT ELECTRICAL WIRING OR HARNESES	5.19	5.03	39	34
G205 INSPECT EXTERNAL ROCKET LAUNCHER STRUCTURAL COMPONENTS	4.71	4.76	33	34

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY
ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY
ABOVE AVERAGE IN DIFFICULTY.

*** ADDITIONAL TASKS NOT REFERENCED CAN BE FOUND AT THE END OF THE STS COMPUTER PRINTOUT IN THE 462XOB
TRAINING EXTRACT.

TABLE 17

SELECTED TASKS MATCHED TO POI 3ABR46230B PERFORMED BY FEW 462X0B RESPONDENTS

POI BLOCK	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
X3D	J322 REMOVE OR REPLACE JETTISON OR EMERGENCY RELEASE ELECTRICAL COMPONENTS	5.75	5.42	18	23
X3D	J321 REMOVE OR REPLACE JETTISON AND EMERGENCY RELEASE SYSTEM ELECTRONIC COMPONENTS	5.56	5.45	13	17
X3D	K351 BENCH CHECK ARMAMENT SYSTEM RELAY PANELS	5.55	5.78	15	10
X3D	K346 BENCH CHECK ARMAMENT SYSTEM ELECTRICAL UNIT CABLE ASSEMBLIES	5.53	5.17	17	13
X3D	J315 REMOVE OR REPLACE CONVENTIONAL BOMBING SYSTEM ELECTRONIC COMPONENTS	5.18	5.24	18	27
X4A	K347 BENCH CHECK ARMAMENT SYSTEM ELECTRONIC COMPONENTS	5.81	5.82	18	13
X4A	J324 REMOVE OR REPLACE MISSILE LAUNCH AND CONTROL SYSTEM ELECTRONIC COMPONENTS	4.13	5.39	9	10

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

TABLE 18

SELECTED TASKS NOT REFERENCED IN POI 3ABR46230B PERFORMED BY MORE
THAN 30 PERCENT OF 462X0B RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
I297 RECONFIGURE SUSPENSION, LAUNCH, AND RELEASE SYSTEMS	6.18	4.70	35	41
L407 CLEAR MALFUNCTIONED OR JAMMED INTERNAL GUN SYSTEMS	6.12	6.33	39	55
G221 INSPECT PYLON STRUCTURAL COMPONENTS	5.87	4.76	33	33
K365 CLEAN AND CORROSION TREAT WEAPONS RELEASE COMPONENTS	5.87	4.10	31	33
G220 INSPECT PYLON ELECTRICAL SYSTEMS	5.79	5.30	33	35
L430 PERFORM PREFLIGHT ARMAMENT SYSTEM INSPECTIONS	5.79	5.30	33	35
I255 REMOVE OR REPLACE AIRCRAFT INSTALLED CANNON PLUGS	5.75	6.64	33	40
L404 CLEAN AND LUBRICATE AIRCRAFT GUN COMPARTMENTS, GUN BAYS, OR BLAST FAIRINGS	5.69	4.06	33	50
N487 INSPECT PYLONS OR ADAPTERS	5.08	4.87	35	33

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS
CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS
CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

A-10 TRAINING DOCUMENTS

STS 462X0C. For the most part, data associated with tasks matched to the A-10 specific paragraph of STS 462X0 supported the STS as written. In several instances, though, very small percentages of first-job and first-enlistment C-shred personnel performed tasks referenced to particular STS subparagraphs (see Table 19). The subparagraphs linked to tasks with low percent members performing should be reviewed to determine whether changes in the STS are warranted. In addition, Table 20 lists tasks performed by more than 10 percent of C-shred respondents and rated above average on training emphasis and task difficulty, that were not referenced to any STS paragraph. The tasks in Table 20 should be reviewed for possible inclusion in the STS.

POI 3ABR46230C. An analysis of task data matched to some C-shred POI objectives indicated that C-shred incumbents are receiving training on certain tasks which a relatively small portion of the respondents actually perform (see Table 21). Training managers should review task data to determine if training on the tasks presented in Table 21 through OJT programs might make more effective use of training time and resources. In contrast, some 46230C tasks not referenced to the POI deserve consideration for possible inclusion. For example, tasks shown in Table 22 are rated high in training emphasis and task difficulty and were performed by substantial percentages of C-shred respondents.

TABLE 19

SELECTED TASKS MATCHED TO STS 462X0C PERFORMED BY FEW 462X0C RESPONDENTS

STS PARAGRAPH	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING		
				FIRST- JOB	FIRST- ENLISTMENT	
18b(1)	G210	INSPECT INTERNAL DISPENSER ELECTRICAL SYSTEMS	4.70	5.60	10	8
18c(3)(b)	L409	INSPECT AMMUNITION STORAGE DRAWERS	2.91	4.06	5	7
18g(5)	G210	INSPECT INTERNAL DISPENSER ELECTRICAL SYSTEMS	4.70	5.60	10	8

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

TABLE 20

SELECTED TASKS NOT REFERENCED IN STS 462XOC PERFORMED BY MORE THAN 10 PERCENT OF 462XOC RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST-JOB	FIRST-ENLISTMENT
F172 LOCATE PART NUMBERS FROM ILLUSTRATED PARTS BREAKDOWNS	6.75	3.89	36	42
I274 TROUBLESHOOT CONVENTIONAL BOMBING MECHANICAL SYSTEMS	6.03	6.24	30	40
L439 TROUBLESHOOT INTERNAL GUN MECHANICAL SYSTEMS	5.87	5.89	39	48
K347 BENCH CHECK ARMAMENT SYSTEM ELECTRONIC COMPONENTS	5.81	5.82	18	17
L415 INSPECT INTERNAL GUN SYSTEM MECHANICAL COMPONENTS	5.84	5.27	41	50
L405 CLEAN AND LUBRICATE GUN SYSTEMS	5.77	4.30	54	62
I255 REMOVE OR REPLACE AIRCRAFT INSTALLED CANNON PLUGS	5.75	6.64	34	36
J316 REMOVE OR REPLACE CONVENTIONAL BOMBING SYSTEM MECHANICAL COMPONENTS	5.70	5.06	34	39
L404 CLEAN AND LUBRICATE AIRCRAFT GUN COMPARTMENTS, GUN BAYS, OR BLAST FAIRINGS	5.69	4.06	46	51
I259 SPLICE OR REPLACE DEFECTIVE AIRCRAFT INSTALLED WIRING	5.65	6.17	14	23
K399 TROUBLESHOOT PYLON ELECTRICAL COMPONENTS	5.64	5.86	21	23
L414 INSPECT INTERNAL GUN SYSTEM ELECTRICAL COMPONENTS	5.66	5.35	31	42
I284 TROUBLESHOOT JETTISON OR EMERGENCY RELEASE MECHANICAL SYSTEMS	5.53	6.05	37	38
K376 OVERHAUL MERS, TERS, OR BRUs	5.47	5.88	22	20
K393 TROUBLESHOOT ARMAMENT SYSTEM ELECTRONIC COMPONENTS	5.44	6.49	14	17
L406 CLEAR MALFUNCTIONED OR JAMMED GUN POD SYSTEMS	5.36	6.24	14	12
I257 REMOVE OR REPLACE AIRCRAFT INSTALLED RELAYS	5.26	6.11	14	21
J318 REMOVE OR REPLACE CONVENTIONAL BOMBING SYSTEM ELECTRICAL WIRING HARNESES OR CABLES	5.26	5.66	31	35
K386 PERFORM T.O. MODIFICATIONS OF SUSPENSION, LAUNCH, AND RELEASE SYSTEM COMPONENTS OR SUPPORT EQUIPMENT	5.21	6.23	18	15
K349 BENCH CHECK ARMAMENT SYSTEM MECHANICAL ACCESSORIES, SUCH AS HIGH DENSITY RACKS OR RELEASE UNITS	5.16	5.23	11	10

TABLE 20 (CONTINUED)

SELECTED TASKS NOT REFERENCED IN STS 462X0C PERFORMED BY MORE THAN 10 PERCENT OF 462X0C RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
K392 TROUBLESHOOT ARMAMENT SYSTEM ELECTRICAL UNIT CABLE ASSEMBLIES	4.99	5.96	10	14
L402 ADJUST ELEMENT TENSION OF INTERNAL GUN SYSTEMS	4.90	5.30	39	51
P532 LOAD CONVENTIONAL MUNITIONS ONTO PRELOAD STANDS OR RACKS	4.73	4.24	34	34

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

*** ADDITIONAL TASKS NOT REFERENCED CAN BE FOUND AT THE END OF THE STS COMPUTER PRINTOUT IN THE 462X0C TRAINING EXTRACT.

TABLE 21

SELECTED TASKS MATCHED TO POI 3ABR46230C PERFORMED BY
FEW 46230C RESPONDENTS

POI BLOCK	TASKS	TRAINING TASK EMPHASIS*	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
VI4A	M462 REMOVE OR REPLACE GUN LOADING SYSTEM COMPONENTS	5.14	15	19
VI4A	M447 INSPECT AMMUNITION LOADING SYSTEMS	4.40	21	24
VII2C	K352 BENCH CHECK BOMB RACKS	6.25	23	22
VII2C	K359 BENCH CHECK MULTIPLE EJECTOR RACKS, TRIPLE EJECTOR RACKS, OR BOMB RELEASE UNITS (MERS, TERS, BRUs)	5.99	22	21
VII3C	K357 BENCH CHECK MISSILE LAUNCHERS	5.40	17	15
VII4A	G197 INSPECT CHAFF OR FLARE EJECTOR UNITS	4.79	11	15
XII4A	L409 INSPECT AMMUNITION STORAGE DRAWERS	2.91	5	7
XIII3A	M471 TROUBLESHOOT INTERNAL GUN SYSTEM ELECTRICAL COMPONENTS	5.13	5	15
XIV5A	G210 INSPECT INTERNAL DISPENSER ELECTRICAL SYSTEMS	4.70	10	8

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

TABLE 22

SELECTED TASKS NOT REFERENCED IN POI 3ABR46230C PERFORMED BY MORE
THAN 30 PERCENT OF 462X0C RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
F172 LOCATE PART NUMBERS FROM ILLUSTRATED PARTS BREAKDOWNS	6.75	3.89	36	42
L439 TROUBLESHOOT INTERNAL GUN MECHANICAL SYSTEMS	5.87	5.89	39	48
L415 INSPECT INTERNAL GUN SYSTEM MECHANICAL COMPONENTS	5.84	5.27	41	50
L405 CLEAN AND LUBRICATE GUN SYSTEMS	5.77	4.30	54	62
I255 REMOVE OR REPLACE AIRCRAFT INSTALLED CANNON PLUGS	5.75	6.64	34	36
J316 REMOVE OR REPLACE CONVENTIONAL BOMBING SYSTEM MECHANICAL COMPONENTS				
L404 CLEAN AND LUBRICATE AIRCRAFT GUN COMPARTMENTS, GUN BAYS, OR BLAST FAIRINGS	5.70	5.06	34	39
L414 INSPECT INTERNAL GUN SYSTEM ELECTRICAL COMPONENTS	5.69	4.06	46	51
I284 TROUBLESHOOT JETTISON OR EMERGENCY RELEASE MECHANICAL SYSTEMS	5.66	5.35	31	42
J318 REMOVE OR REPLACE CONVENTIONAL BOMBING SYSTEM	5.53	6.05	37	38
ELECTRICAL WIRING HARNESSSES OR CABLES				
L402 ADJUST ELEMENT TENSION OF INTERNAL GUN SYSTEMS	5.26	5.66	31	35
P532 LOAD CONVENTIONAL MUNITIONS ONTO PRELOAD STANDS OR RACKS	4.90	5.30	39	51
	4.73	4.24	34	34

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

F-4 TRAINING DOCUMENTS

STS 462X0D. An analysis of data matched to paragraph 15 of the 462X0 STS revealed a number of areas which should be reviewed by training managers. As shown in Table 23, the F-4 portion of the STS has subparagraphs matched to tasks performed by very few first-job or first-enlistment respondents. The tasks and associated STS paragraphs should be examined to determine whether the STS should be changed to eliminate, reduce or modify these subparagraphs. In addition, the unmatched tasks presented in Table 24 should be reviewed to establish whether the STS should be modified to include tasks performed by such large percentages of incumbents.

POI 3ABR46230D. Similar to the D-shred STS paragraph, Table 25 illustrates that a number of 46230C POI objectives are matched to tasks with very low percent members performing. Therefore, subject-matter specialists should review that task data to establish whether the types of tasks presented in Table 25 could be taught more efficiently through OJT programs. Additionally, the unmatched tasks matched in Table 26 should be evaluated for their possible inclusion in the resident technical training course.

TABLE 23

SELECTED TASKS MATCHED TO STS 462XOD PERFORMED BY FEW 462XOD RESPONDENTS

STS PARAGRAPH	TASKS	PERCENT MEMBERS PERFORMING		
		TRAINING EMPHASIS*	TASK DIFFICULTY**	FIRST- JOB ENLISTMENT
15d(3)	M458	4.60	5.19	4
15d(5)(c)	M464	5.00	5.03	5
15d(5)(e)	M463	5.01	5.11	4
	PERFORM IN-SHOP INSPECTIONS OF GUN POD SYSTEMS			6
	REMOVE OR REPLACE GUN POD SYSTEM MECHANICAL COMPONENTS OR PARTS			7
	REMOVE OR REPLACE GUN POD SYSTEM ELECTRICAL COMPONENTS			6

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

TABLE 24

SELECTED TASKS NOT REFERENCED IN STS 462XOD PERFORMED BY MORE
THAN 10 PERCENT OF 462XOD RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
G198 INSPECT EXTERNAL BOMB OR EJECTOR RACK ELECTRICAL SYSTEMS	6.22	5.17	43	51
L407 CLEAR MALFUNCTIONED OR JAMMED INTERNAL GUN SYSTEMS	6.12	6.33	26	28
I274 TROUBLESHOOT CONVENTIONAL BOMBING MECHANICAL SYSTEMS	6.03	6.24	26	32
L438 TROUBLESHOOT INTERNAL GUN ELECTRICAL SYSTEMS	6.03	6.46	16	21
J297 RECONFIGURE SUSPENSION, LAUNCH, AND RELEASE SYSTEMS	6.18	4.70	39	45
G202 INSPECT EXTERNAL MISSILE LAUNCHER ELECTRICAL SYSTEMS	5.83	5.15	44	47
K347 BENCH CHECK ARMAMENT SYSTEM ELECTRONIC COMPONENTS	5.81	5.82	14	16
G203 INSPECT EXTERNAL MISSILE LAUNCHER STRUCTURAL COMPONENTS	5.79	4.94	48	50
I255 REMOVE OR REPLACE AIRCRAFT INSTALLED CANNON PLUGS	5.75	6.64	33	36
P358 LOAD PRELOADED CONVENTIONAL MUNITIONS ONTO AIRCRAFT	5.73	4.46	34	31
J316 REMOVE OR REPLACE CONVENTIONAL BOMBING SYSTEM MECHANICAL COMPONENTS	5.70	5.06	35	39
K394 TROUBLESHOOT BOMB OR EJECTOR RACK ELECTRICAL COMPONENTS	5.69	6.05	23	24
I259 SPLICE OR REPLACE DEFECTIVE AIRCRAFT INSTALLED WIRING	5.65	6.17	19	26
K399 TROUBLESHOOT PYLON ELECTRICAL COMPONENTS	5.64	5.86	18	20
I284 TROUBLESHOOT JETTISON OR EMERGENCY RELEASE MECHANICAL SYSTEMS	5.53	6.05	19	24
I262 TROUBLESHOOT AIRCRAFT NUCLEAR WEAPONS RELEASE ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE	5.40	7.00	16	17
L406 CLEAR MALFUNCTIONED OR JAMMED GUN POD SYSTEMS	5.36	6.24	16	19

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR
HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR
HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

*** ADDITIONAL TASKS NOT REFERENCED CAN BE FOUND AT THE END OF THE STS COMPUTER PRINTOUT IN THE 462XOD
TRAINING EXTRACT.

TABLE 25

SELECTED TASKS MATCHED TO POI 3ABR46230D PERFORMED BY FEW AFS 426X0D RESPONDENTS

POI BLOCK	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
VIA	S627	PLACE PLACARDS OR WARNINGS ON MUNITIONS TRANSPORT OR HANDLING EQUIPMENT	2.61	10	13
VI2B	O509	INSPECT MUNITIONS HANDLING TRAILERS	4.36	12	15
VII4A	M444	CLEAN AND CORROSION TREAT GUN SYSTEM COMPONENTS	5.56	20	20
VII4A	L412	INSPECT GUN POD SYSTEM MECHANICAL COMPONENTS	5.13	13	16
VII4A	M463	REMOVE OR REPLACE GUN POD SYSTEM ELECTRICAL COMPONENTS	5.01	4	6
VII4A	M464	REMOVE OR REPLACE GUN POD SYSTEM MECHANICAL COMPONENTS OR PARTS	5.00	5	7
VII4A	L411	INSPECT GUN POD SYSTEMS ELECTRICAL COMPONENTS	4.78	12	5
VII4A	M458	PERFORM IN-SHOP INSPECTIONS OF GUN POD SYSTEMS	4.60	4	6
VII4A	N480	INSPECT GUN POD SYSTEMS	4.49	12	14
XI2A	L428	PERFORM OPERATIONAL CHECKS OF INTERNAL GUN SYSTEMS	5.90	24	30
XI2A	M471	TROUBLESHOOT INTERNAL GUN SYSTEM ELECTRICAL COMPONENTS	5.13	4	9
XI2A	N497	PERFORM OPERATIONAL CHECKS OF INTERNAL GUN ELECTRICAL SYSTEMS	5.04	19	25
XI3A	L427	PERFORM OPERATIONAL CHECKS OF GUN POD SYSTEMS	5.34	16	19
XI3A	N496	PERFORM OPERATIONAL CHECKS OF GUN POD ELECTRICAL SYSTEMS	4.38	14	15

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

TABLE 26

SELECTED TASKS NOT REFERENCED IN POI 3ABR46230D PERFORMED BY MORE
THAN 30 PERCENT OF 462X0D RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
G198 INSPECT EXTERNAL BOMB OR EJECTOR RACK ELECTRICAL SYSTEMS	6.22	5.17	43	51
J297 RECONFIGURE SUSPENSION, LAUNCH, AND RELEASE SYSTEMS	6.18	4.70	39	45
G202 INSPECT EXTERNAL MISSILE LAUNCHER ELECTRICAL SYSTEMS	5.83	5.15	44	47
G203 INSPECT EXTERNAL MISSILE LAUNCHER STRUCTURAL COMPONENTS	5.79	4.94	48	50
I255 REMOVE OR REPLACE AIRCRAFT INSTALLED CANNON PLUGS	5.75	6.64	33	36
P538 LOAD PRELOADED CONVENTIONAL MUNITIONS ONTO AIRCRAFT	5.73	4.46	34	31
J316 REMOVE OR REPLACE CONVENTIONAL BOMBING SYSTEM MECHANICAL COMPONENTS	5.70	5.06	35	39

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS
CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS
CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

F-15 TRAINING DOCUMENTS

STS 462X0E. Overall, data corresponding to tasks matched to paragraph 17 of the 462X0 STS supported the F-15 portion of the STS, as written. STS subparagraphs 17g(3)(b) and 17g(4)(b), however, both contain tasks performed by few first-job or first-enlistment personnel (see Table 27). Qualified training personnel should examine the tasks and corresponding STS paragraphs presented in Table 27 to evaluate whether the percent members performing data is sufficient to justify changes in the STS. Also, the tasks in Table 28 should be examined because, although they were not referenced to the STS, they were performed by large percentages of 462X0E respondents and should possibly be included in the STS.

POI 3ABR462X0E. Table 29 shows that E-shred incumbents receive training on some tasks performed by very small percentages of first-job and first-enlistment E-shred personnel. The tasks listed in Table 29 should be evaluated to determine whether they could be trained in OJT. Table 30 contains five tasks rated above average in training emphasis and in training difficulty that were not referenced to POI objectives. Due to the high training emphasis and training difficulty ratings and because over 30 percent of first-job and first-enlistment personnel perform these five tasks, they should be reviewed for possible addition to the POI.

TABLE 27

SELECTED TASKS MATCHED TO STS 462XOE PERFORMED BY FEW 462XOE RESPONDENTS

STS PARAGRAPH	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
17g(3)(b)	J315 REMOVE OR REPLACE CONVENTIONAL BOMBING SYSTEM ELECTRONIC COMPONENTS	5.18	5.24	8	11
17g(4)(b)	I276 TROUBLESHOOT DISPENSER ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE	5.01	6.34	7	6
17g(4)(b)	I275 TROUBLESHOOT CONVENTIONAL BOMBING SOLID-STATE CIRCUIT SYSTEMS	4.96	7.22	6	9
17g(4)(b)	I278 TROUBLESHOOT DISPENSER SOLID-STATE CIRCUIT SYSTEMS	3.92	7.11	3	3

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

TABLE 28

SELECTED TASKS NOT REFERENCED IN STS 462XOE PERFORMED BY MORE
THAN 10 PERCENT OF 462XOE RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
L407 CLEAR MALFUNCTIONED OR JAMMED INTERNAL GUN SYSTEMS	6.12	6.33	43	51
I274 TROUBLESHOOT CONVENTIONAL BOMBING MECHANICAL SYSTEMS	6.03	6.24	14	17
G223 INSPECT, CLEAN, AND LUBRICATE EJECTOR UNITS	5.91	4.75	46	49
K365 CLEAN AND CORROSION TREAT WEAPONS RELEASE COMPONENTS	5.87	4.10	39	34
L439 TROUBLESHOOT INTERNAL GUN MECHANICAL SYSTEMS	5.87	5.89	30	38
K394 TROUBLESHOOT BOMB OR EJECTOR RACK ELECTRICAL COMPONENTS	5.69	6.05	25	24
L404 CLEAN AND LUBRICATE AIRCRAFT GUN COMPARTMENTS, GUN BAYS, OR BLAST FAIRINGS				
I259 SPLICE OR REPLACE DEFECTIVE AIRCRAFT INSTALLED WIRING	5.69	4.06	46	52
L434 REMOVE OR REPLACE INTERNAL GUN SYSTEMS	5.65	6.17	14	21
K393 TROUBLESHOOT ARMAMENT SYSTEM ELECTRONIC COMPONENTS	5.52	5.67	50	56
L406 CLEAR MALFUNCTIONED OR JAMMED GUN POD SYSTEMS	5.44	6.49	15	14
I257 REMOVE OR REPLACE AIRCRAFT INSTALLED RELAYS	5.36	6.24	11	13
K386 PERFORM T.O. MODIFICATIONS OF SUSPENSION, LAUNCH, AND RELEASE SYSTEM COMPONENTS OR SUPPORT EQUIPMENT	5.26	6.11	12	19
M471 TROUBLESHOOT INTERNAL GUN SYSTEM ELECTRICAL COMPONENTS	5.21	6.23	25	22
K391 TROUBLESHOOT ARMAMENT SYSTEM ELECTRICAL UNIT RELAY PANELS	5.13	6.02	14	17
K397 TROUBLESHOOT MISSILE LAUNCHER ELECTRICAL COMPONENTS	5.09	6.62	10	13
***	5.09	6.17	28	26

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

*** ADDITIONAL TASKS NOT REFERENCED CAN BE FOUND AT THE END OF THE STS COMPUTER PRINTOUT IN THE 462XOE TRAINING EXTRACT.

TABLE 29

SELECTED TASKS MATCHED TO POI 3ABR46230E PERFORMED BY FEW 462X0E RESPONDENTS

POI BLOCK	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
VI2A	0509 INSPECT MUNITIONS HANDLING TRAILERS	4.36	3.80	14	15
VIII14A	K342 ASSEMBLE OR DISASSEMBLE PYLON ADAPTER COMPONENTS	5.83	5.18	22	20
VIII14A	K336 ASSEMBLE OR DISASSEMBLE ARMAMENT SYSTEM MECHANICAL ACCESSORIES	5.31	5.55	18	17
IX2A	J322 REMOVE OR REPLACE JETTISON OR EMERGENCY RELEASE SYSTEM ELECTRICAL COMPONENTS	5.75	5.42	18	18
IX2A	J317 REMOVE OR REPLACE CONVENTIONAL BOMBING SYSTEM ELECTRICAL COMPONENTS	5.60	5.16	12	12
IX2A	J321 REMOVE OR REPLACE JETTISON AND EMERGENCY RELEASE SYSTEM ELECTRONIC COMPONENTS	5.56	5.45	16	20
IX2A	J315 REMOVE OR REPLACE CONVENTIONAL BOMBING SYSTEM ELECTRONIC COMPONENTS	5.18	5.24	8	11
IX2A	J324 REMOVE OR REPLACE MISSILE LAUNCH AND CONTROL SYSTEM ELECTRONIC COMPONENTS	4.13	5.39	20	25
IX2A	J328 REMOVE OR REPLACE MISSILE LAUNCH AND CONTROL SYSTEM ELECTRICAL COMPONENTS	4.01	5.44	22	22

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

TABLE 30
SELECTED TASKS NOT REFERENCED IN POI 3ARR46230E PERFORMED BY MORE
THAN 30 PERCENT OF 462XOE RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
L407 CLEAR MALFUNCTIONED OR JAMMED INTERNAL GUN SYSTEMS	6.12	6.33	43	51
G223 INSPECT, CLEAN, AND LUBRICATE EJECTOR UNITS	5.91	4.75	46	49
K365 CLEAN AND CORROSION TREAT WEAPONS RELEASE COMPONENTS	5.87	4.10	39	34
L404 CLEAN AND LUBRICATE AIRCRAFT GUN COMPARTMENTS, GUN BAYS, OR BLAST FAIRINGS	5.69	4.06	46	52
L434 REMOVE OR REPLACE INTERNAL GUN SYSTEMS	5.52	5.67	50	56

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR
HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR
HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

F-16 TRAINING DOCUMENTS

STS 462X0F. An analysis of data associated with tasks matched to the F-16 specific paragraph of STS 462X0 revealed a number of items which should be reviewed by subject-matter experts. Table 31 contains a list of STS subparagraphs matched to tasks with low percent members performing. The items in Table 31 should be examined to determine whether changes in the STS are needed. Table 32 contains tasks with high percent members performing that were not referenced to an STS paragraph. The tasks in Table 32 should be considered for possible inclusion in the STS.

POI 3ABR46230F. Like the F-16 specific STS paragraph, the F-shred POI contains a number of items which should be reviewed by subject-matter experts. Table 33 shows that a number of 46230F POI objectives are matched to tasks with very low percent members performing. Tasks with less than 30 percent of the respondents performing should be examined to determine the possibility of training them through OJT as opposed to technical training school. In addition, the unmatched tasks with more than 30 percent members performing or high training emphasis or task difficulty ratings in Table 34 should be reviewed and, if warranted, the POI should be modified to include them.

TABLE 31

SELECTED TASKS MATCHED TO STS 462XOF PERFORMED BY FEW 462XOF RESPONDENTS

STS PARAGRAPH	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
20c(2)(b)	L419 MAINTAIN AMMUNITION STORAGE DRAWERS	2.26	4.35	1	1
20g(1)(i)	K344 ASSEMBLE OR DISASSEMBLE ROCKET LAUNCHER COMPONENTS	4.77	5.08	8	8
20g(3)(a)	J315 REMOVE OR REPLACE CONVENTIONAL BOMBING SYSTEM ELECTRONIC COMPONENTS	5.18	5.24	8	11
20g(3)(b)	J302 REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS MONITOR, CONTROL, OR RELEASE SYSTEM ELECTRICAL COMPONENTS	6.10	4.83	7	8
20g(3)(b)	J306 REMOVE OR REPLACE AIRCRAFT NUCLEAR RELEASE SYSTEM ELECTRONIC COMPONENTS	5.21	5.80	1	4
20i(1)	P535 LOAD NUCLEAR WEAPONS OR EQUIVALENT TRAINING ITEMS ONTO AIRCRAFT	6.43	5.33	8	8
20i(1)	P555 UNLOAD NUCLEAR WEAPONS OR EQUIVALENT TRAINERS FROM AIRCRAFT	5.92	4.73	7	7
20i(1)	P545 PERFORM PREPARATIONS FOR LOADING NUCLEAR WEAPONS OR EQUIVALENT TRAINERS ONTO AIRCRAFT	5.83	4.77	7	5

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

TABLE 32

SELECTED TASKS NOT REFERENCED IN STS 462XOF PERFORMED BY MORE
THAN 10 PERCENT OF 462XOF RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
L407 CLEAR MALFUNCTIONED OR JAMMED INTERNAL GUN SYSTEMS	6.12	6.33	43	51
I274 TROUBLESHOOT CONVENTIONAL BOMBING MECHANICAL SYSTEMS	6.03	6.24	14	17
L439 TROUBLESHOOT INTERNAL GUN MECHANICAL SYSTEMS	5.87	5.89	30	38
K365 CLEAN AND CORROSION TREAT WEAPONS RELEASE COMPONENTS	5.87	4.10	39	34
I255 REMOVE OR REPLACE AIRCRAFT INSTALLED CANNON PLUGS	5.75	6.64	25	30
L404 CLEAN AND LUBRICATE AIRCRAFT GUN COMPARTMENTS, GUN BAYS, OR BLAST FAIRINGS	5.69	4.06	46	52
I259 SPLICE OR REPLACE DEFECTIVE AIRCRAFT INSTALLED WIRING	5.65	6.17	14	21
I284 TROUBLESHOOT JETTISON OR EMERGENCY RELEASE MECHANICAL SYSTEMS	5.53	6.05	28	29
L406 CLEAR MALFUNCTIONED OR JAMMED GUN POD SYSTEMS	5.36	6.24	11	13
I257 REMOVE OR REPLACE AIRCRAFT INSTALLED RELAYS	5.26	6.11	12	19
K386 PERFORM T.O. MODIFICATIONS OF SUSPENSION, LAUNCH, AND RELEASE SYSTEM COMPONENTS OR SUPPORT EQUIPMENT	5.21	6.23	25	22
J296 PERFORM T.O. MODIFICATIONS OF AIRCRAFT INSTALLED SUSPENSION, LAUNCH, AND RELEASE SYSTEMS	4.91	6.19	33	32

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

*** ADDITIONAL TASKS NOT REFERENCED CAN BE FOUND AT THE END OF THE STS COMPUTER PRINTOUT IN THE 462XOF TRAINING EXTRACT.

TABLE 33

SELECTED TASKS MATCHED TO POI 3ABR46230F PERFORMED BY FEW 462X0F RESPONDENTS

POI BLOCK	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
VIA	S627 PLACE PLACARDS OR WARNINGS ON MUNITIONS TRANSPORT OR HANDLING EQUIPMENT	2.61	2.26	8	4
VI2A	T657 OPERATE GENERATOR SETS	5.22	2.98	20	20
VI5B	M447 INSPECT AMMUNITION LOADING SYSTEMS	4.40	4.80	11	15
VII13B	J302 REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS MONITOR, CONTROL, OR RELEASE SYSTEM ELECTRICAL COMPONENTS	6.10	4.83	16	15
VII13B	J317 REMOVE OR REPLACE CONVENTIONAL BOMBING SYSTEM ELECTRICAL COMPONENTS	5.60	5.16	20	23
VII13B	J306 REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS RELEASE SYSTEM ELECTRONIC COMPONENTS	5.21	5.80	8	8
VIII13B	J315 REMOVE OR REPLACE CONVENTIONAL BOMBING SYSTEM ELECTRONIC COMPONENTS	5.18	5.24	22	22
VIII13B	J324 REMOVE OR REPLACE MISSILE LAUNCH AND CONTROL SYSTEM ELECTRONIC COMPONENTS	4.13	5.39	12	14
VIII13B	J328 REMOVE OR REPLACE MISSILE LAUNCH AND CONTROL SYSTEM ELECTRICAL COMPONENTS	4.01	5.44	9	11
IX2B	L403 BORESIGHT GUN SYSTEMS	5.84	4.86	20	28
IX2B	L408 HARMONIZE GUN SYSTEMS	4.64	5.57	9	16
X2A	I273 TROUBLESHOOT CONVENTIONAL BOMBING ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE	6.03	6.82	11	18
X2A	L438 TROUBLESHOOT INTERNAL GUN ELECTRICAL SYSTEMS	6.03	6.46	17	24
X2A	I283 TROUBLESHOOT JETTISON OR EMERGENCY RELEASE ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE	5.71	6.55	17	18
X2A	K394 TROUBLESHOOT BOMB OR EJECTOR RACK ELECTRICAL COMPONENTS	5.69	6.05	16	17
X2A	I260 TROUBLESHOOT AIRCRAFT NUCLEAR WEAPONS MONITOR AND CONTROL ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE	5.65	7.10	11	9
X2A	K399 TROUBLESHOOT PYLON ELECTRICAL COMPONENTS	5.64	5.86	11	14
X2A	K393 TROUBLESHOOT ARMAMENT SYSTEM ELECTRONIC COMPONENTS	5.44	6.49	12	12

TABLE 33 (CONTINUED)

SELECTED TASKS MATCHED TO PC¹ 3ABR46230F PERFORMED BY FEW 462X0F RESPONDENTS

POI BLOCK	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
X2A	I262 TROUBLESHOOT AIRCRAFT NUCLEAR WEAPONS RELEASE ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE	5.40	7.00	11	9
X2A	M471 TROUBLESHOOT INTERNAL GUN SYSTEM ELECTRICAL COMPONENTS	5.13	6.02	3	11
X2A	K397 TROUBLESHOOT MISSILE LAUNCHER ELECTRICAL COMPONENTS	5.09	6.17	12	15
X2A	I261 TROUBLESHOOT AIRCRAFT NUCLEAR WEAPONS MONITOR AND CONTROL SOLID-STATE CIRCUIT SYSTEMS	5.06	7.62	9	8
X2A	I275 TROUBLESHOOT CONVENTIONAL BOMBING SOLID-STATE CIRCUIT SYSTEMS	4.96	7.22	9	12
X2A	I264 TROUBLESHOOT AIRCRAFT NUCLEAR WEAPONS RELEASE SOLID-STATE CIRCUIT SYSTEMS	4.87	7.43	4	4
X2A	N498 PERFORM OPERATIONAL CHECKS OF INTERNAL GUN ELECTRONIC SYSTEMS	4.81	5.57	6	15
X2A	N495 PERFORM OPERATIONAL CHECKS OF BOMB RELEASE ELECTRONIC SYSTEMS	4.68	5.43	20	19
X2A	I285 TROUBLESHOOT JETTISON OR EMERGENCY RELEASE SOLID-STATE CIRCUIT SYSTEMS	4.58	7.08	9	11
X2A	N500 PERFORM OPERATIONAL CHECKS OF MISSILE LAUNCH ELECTRONIC SYSTEMS	4.53	5.45	17	20
X2A	I280 TROUBLESHOOT FLARE, PHOTOFLASH, OR CHAFF DISPENSING ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE	4.35	6.79	5	5
X2A	I294 TROUBLESHOOT ROCKET LAUNCHER ELECTRICAL SYSTEMS	4.14	6.34	11	11

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

TABLE 34

SELECTED TASKS NOT REFERENCED IN POI 3ABR46230F PERFORMED BY MORE
THAN 30 PERCENT OF 462X0F RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
I297 RECONFIGURE SUSPENSION, LAUNCH, AND RELEASE SYSTEMS	6.18	4.70	41	50
L407 CLEAR MALFUNCTIONED OR JAMMED INTERNAL GUN SYSTEMS	6.12	6.33	33	39

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

F-106 TRAINING DOCUMENTS

STS 462X0G. A comprehensive review of data associated with tasks matched to paragraph 24 of the 462X0 STS revealed several areas which should be examined further to determine whether changes are necessary. STS subparagraph 24g(2)a contains tasks performed by few of the G-shred respondents (see Table 35). On the other hand, Table 36 lists tasks performed by large percentages of G-shred personnel that were not referenced to an STS paragraph. Some of the tasks listed in Table 36 may not be clearly related to F-106 aircraft, but they warrant examination because over 10 percent of G-shred incumbents perform them. Subject-matter experts should review these STS items to evaluate whether changes are required.

POI 3ABR46230G. As with the G-shred STS paragraph, Table 37 shows several 46230G POI objectives are also matched to tasks performed by less than 30 percent of the respondents. Training managers should review task data to determine whether training on the tasks presented in Table 37 through OJT programs might make more effective use of training time and resources. In addition, the "Tasks Not Referenced" presented in Table 38 should be considered for possible inclusion in the training conducted at the technical training school.

TABLE 35

SELECTED TASKS MATCHED TO STS 462XOG PERFORMED BY FEW 462XOG RESPONDENTS

STS PARAGRAPH	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
24g(2)(a)	K388 REMOVE OR REPLACE BOMB OR EJECTOR RACKS FROM SUBASSEMBLIES	5.56	4.43	7	8
24g(4)(a)	N498 PERFORM OPERATIONAL CHECKS OF INTERNAL GUN ELECTRONIC SYSTEMS	4.81	5.57	9	13

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

TABLE 36

SELECTED TASKS NOT REFERENCED IN STS 462X0G PERFORMED BY MORE
THAN 10 PERCENT OF 462X0G RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
F172 LOCATE PART NUMBERS FROM ILLUSTRATED PARTS BREAKDOWNS	6.75	3.89	57	58
J303 REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS RELEASE SYSTEM MECHANICAL COMPONENTS	6.30	4.87	47	44
G198 INSPECT EXTERNAL BOMB OR EJECTOR RACK ELECTRICAL SYSTEMS	6.22	5.17	45	51
G199 INSPECT EXTERNAL BOMB OR EJECTOR RACK STRUCTURAL COMPONENTS	6.17	4.86	35	40
G224 INSPECT, CLEAN, AND LUBRICATE EXTERNAL BOMB OR EJECTOR RACK MECHANICAL COMPONENTS	6.04	4.90	33	34
H240 PERFORM OPERATIONAL CHECKS OF AIRCRAFT NUCLEAR WEAPONS RELEASE SYSTEMS	6.03	5.49	41	40
G223 INSPECT, CLEAN, AND LUBRICATE EJECTOR UNITS	5.91	4.75	31	33
K365 CLEAN AND CORROSION TREAT WEAPONS RELEASE COMPONENTS	5.87	4.10	43	32
I255 REMOVE OR REPLACE AIRCRAFT INSTALLED CANNON PLUGS	5.75	6.64	47	43
L404 CLEAN AND LUBRICATE AIRCRAFT GUN COMPARTMENTS, GUN BAYS, OR BLAST FAIRINGS	5.69	4.06	41	33
I258 REMOVE OR REPLACE AIRCRAFT INSTALLED SWITCHES	5.66	5.55	40	45
F173 LOCATE PARTS FROM QUICK REFERENCE LISTS	5.42	3.43	38	47
I257 REMOVE OR REPLACE AIRCRAFT INSTALLED RELAYS	5.26	6.11	36	39
G222 INSPECT, CLEAN, AND LUBRICATE ARMAMENT BAY DOOR SYSTEM MECHANICAL COMPONENTS	4.43	5.15	47	46
G214 INSPECT INTERNAL ROCKET LAUNCHER ELECTRICAL SYSTEMS	4.32	5.35	33	39
I265 TROUBLESHOOT ARMAMENT BAY DOOR ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE	4.30	6.51	33	33
G215 INSPECT INTERNAL ROCKET LAUNCHER STRUCTURAL COMPONENTS	4.25	5.18	33	38
I267 TROUBLESHOOT ARMAMENT BAY DOOR MECHANICAL SYSTEMS	4.14	6.13	40	40
J327 REMOVE OR REPLACE MISSILE LAUNCH AND CONTROL SYSTEM WIRING HARNESSES	3.99	5.72	31	37
N489 INSPECT SHACKLES	3.83	4.75	34	33
J334 RIG ARMAMENT BAY DOORS	3.64	6.46	33	44

TABLE 36 (CONTINUED)

SELECTED TASKS NOT REFERENCED IN STS 462X0G PERFORMED BY MORE
THAN 10 PERCENT OF 462X0G RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
T644 ISSUE OR RECEIVE TOOLS	3.64	2.76	38	49
T655 OPERATE FARM TRACTORS	3.62	3.14	33	35
N475 INSPECT ARMAMENT BAY DOORS	3.54	4.94	57	56
J298 REMOVE OR INSTALL ARMAMENT BAY DOORS	3.53	5.80	62	66
J308 REMOVE OR REPLACE ARMAMENT BAY DOOR SYSTEM ELECTRICAL COMPONENTS	3.48	5.38	31	37
I268 TROUBLESHOOT ARMAMENT BAY DOOR PNEUMATIC SYSTEMS	3.30	6.33	59	59
J310 REMOVE OR REPLACE ARMAMENT BAY DOOR SYSTEM MECHANICAL COMPONENTS	3.26	5.27	45	44
J329 REMOVE OR REPLACE MISSILE LAUNCH AND CONTROL SYSTEM PNEUMATIC COMPONENTS	3.25	5.66	40	46
N492 PERFORM ARMAMENT BAY DOOR CLEARANCE CHECKS	3.23	5.41	47	51
S618 INSPECT NUCLEAR WEAPONS OR EQUIVALENT TRAINING ITEMS	3.05	4.78	31	33
J311 REMOVE OR REPLACE ARMAMENT BAY DOOR SYSTEM PNEUMATIC COMPONENTS	2.86	5.53	60	58
I290 TROUBLESHOOT MISSILE LAUNCH AND CONTROL PNEUMATIC SYSTEMS	2.66	6.72	36	45
R598 REMOVE OR INSTALL AIRCRAFT PANELS	2.71	3.22	38	42
N474 BORESIGHT MISSILE LAUNCHERS	2.06	5.38	60	56

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

*** ADDITIONAL TASKS NOT REFERENCED CAN BE FOUND AT THEN END OF THE STS COMPUTER PRINTOUT IN THE 462X0G TRAINING EXTRACT.

TABLE 37

SELECTED TASKS MATCHED TO POI 3ABR46230G PERFORMED BY FEW 462X0G RESPONDENTS

POI BLOCK	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
V4A	0510	4.73	3.75	21	24
V4A	0509	4.36	3.80	26	27
VII3A	K362	5.01	4.69	19	15
VII3A	K344	4.77	5.08	14	17
VII3A	G231				
VII3A	N488	4.53	4.99	19	28
VII3B	N501	3.95	4.65	21	26
IX4B	M459	3.94	5.05	15	20
		5.06	5.26	28	20

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

TABLE 38

SELECTED TASKS NOT REFERENCED IN POI 3ABR46230G PERFORMED BY MORE
THAN 30 PERCENT OF 462X0G RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
F172 LOCATE PART NUMBERS FROM ILLUSTRATED PARTS BREAKDOWNS	6.75	3.89	57	58
J303 REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS RELEASE SYSTEM MECHANICAL COMPONENTS	6.30	4.87	47	44
G198 INSPECT EXTERNAL BOMB OR EJECTOR RACK ELECTRICAL SYSTEMS	6.22	5.17	45	51
G199 INSPECT EXTERNAL BOMB OR EJECTOR RACK STRUCTURAL COMPONENTS	6.17	4.86	34	40
G224 INSPECT, CLEAN, AND LUBRICATE EXTERNAL BOMB OR EJECTOR RACK MECHANICAL COMPONENTS	6.04	4.90	33	34
H240 PERFORM OPERATIONAL CHECKS OF AIRCRAFT NUCLEAR WEAPONS RELEASE SYSTEMS	6.03	5.49	41	39
K365 CLEAN AND CORROSION TREAT WEAPONS RELEASE COMPONENTS	5.87	4.10	43	32
I255 REMOVE OR REPLACE AIRCRAFT INSTALLED CANNON PLUGS	5.75	6.64	47	43
L404 CLEAN AND LUBRICATE AIRCRAFT GUN COMPARTMENTS; GUN BAYS, OR BLAST FAIRINGS	5.69	4.06	41	33
I258 REMOVE OR REPLACE AIRCRAFT INSTALLED SWITCHES	5.66	5.55	40	45
F173 LOCATE PARTS FROM QUICK REFERENCE LISTS	5.42	3.43	38	47
I257 REMOVE OR REPLACE AIRCRAFT INSTALLED RELAYS	5.26	6.11	36	39
N478 INSPECT ELECTRICAL WIRING OR HARNESES	5.19	5.03	43	46
I256 REMOVE OR REPLACE AIRCRAFT INSTALLED CIRCUIT BREAKERS	5.13	5.33	41	36
G222 INSPECT, CLEAN, AND LUBRICATE ARMAMENT BAY DOOR SYSTEM MECHANICAL COMPONENTS	4.43	5.15	47	46
I265 TROUBLESHOOT ARMAMENT BAY DOOR SYSTEMS OTHER THAN SOLID-STATE	4.30	6.51	33	33
G215 INSPECT INTERNAL ROCKET LAUNCHER STRUCTURAL COMPONENTS	4.25	5.18	33	38
I265 TROUBLESHOOT ARMAMENT BAY DOOR MECHANICAL SYSTEMS	4.14	6.13	40	40
J327 REMOVE OR REPLACE MISSILE LAUNCH AND CONTROL SYSTEM WIRING HARNESES	3.99	5.72	31	37
N489 INSPECT SHACKLES	3.83	4.75	34	33
T655 OPERATE FARM TRACTORS	3.62	3.14	33	35
N475 INSPECT ARMAMENT BAY DOORS	3.54	4.94	57	56

TABLE 38 (CONTINUED)

SELECTED TASKS NOT REFERENCED IN POI 3ABR46230G PERFORMED BY MORE
THAN 30 PERCENT OF 462X0G RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
J298 REMOVE OR INSTALL ARMAMENT BAY DOORS	3.53	5.80	62	66
I268 TROUBLESHOOT ARMAMENT BAY DOOR PNEUMATIC SYSTEMS	3.30	6.33	59	59
J310 REMOVE OR REPLACE ARMAMENT BAY DOOR SYSTEM MECHANICAL COMPONENTS	3.26	5.27	45	44
J329 REMOVE OR REPLACE MISSILE LAUNCH AND CONTROL SYSTEM PNEUMATIC COMPONENTS	3.25	5.66	40	46
N492 PERFORM ARMAMENT BAY DOOR CLEARANCE CHECKS	3.23	5.41	47	51
J311 REMOVE OR REPLACE ARMAMENT BAY DOOR SYSTEM PNEUMATIC COMPONENTS	2.86	5.53	60	58
R598 REMOVE OR INSTALL AIRCRAFT PANELS	2.71	3.22	38	42
I290 TROUBLESHOOT MISSILE LAUNCH AND CONTROL SYSTEM PNEUMATIC SYSTEMS	2.66	6.72	36	45
N474 BORESIGHT MISSILE LAUNCHERS	2.06	5.38	60	56

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY
ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY
ABOVE AVERAGE IN DIFFICULTY.

F-111 TRAINING DOCUMENTS

STS 462X0H. The data associated with tasks matched to the F-111 specific paragraph of the 462X0 STS indicate that numerous tasks are performed by few first-job or first-enlistment H-shred airmen. The STS subparagraphs and associated data listed in Table 39 should be reviewed by subject-matter experts to establish whether changes in the STS are warranted. Also, the unmatched tasks listed in Table 40 were performed by large percentages of H-shred respondents and were rated above average on training emphasis and training difficulty. Qualified training personnel should examine the tasks in Table 40 to determine if the STS should be modified to cover the types of tasks presented.

POI 3ABR46230H. There are many tasks matched to the H-shred POI, with very low percent members performing. Tasks performed by less than 30 percent of the respondents should be reviewed, along with the associated POI objectives, by subject experts to determine if changes need to be made in the POI (see Table 41). At the same time, the unmatched tasks presented on Table 42 should be evaluated for possible inclusion in the training course. The tasks in Table 42 deserve examination because of the large percent members performing, and because each of the tasks was rated average or above average in training emphasis and in training difficulty.

TABLE 39

SELECTED TASKS MATCHED TO STS 462XOH PERFORMED BY FEW 462XOH RESPONDENTS

STS PARAGRAPH	TASKS	TRAINING EMPHASIS**	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
19c(3)	L415	5.84	5.27	9	23
19c(3)	M459				
	INSPECT INTERNAL GUN SYSTEM MECHANICAL COMPONENTS				
	PERFORM IN-SHOP INSPECTIONS OF INTERNAL GUN SYSTEMS OR COMPONENTS				
19c(7)(b)	L423	5.06	5.26	7	10
19c(8)	L408	4.69	5.36	6	14
19f	T659	4.64	5.57	7	13
	OPERATE HYDRAULIC MULES				
19g(1)(c)	G227	2.77	5.11	6	6
	INSPECT, CLEAN, AND LUBRICATE EXTERNAL ROCKET LAUNCHER MECHANICAL COMPONENTS				
19g(1)(c)	K355	4.84	4.77	4	6
19g(1)(c)	K344	4.81	4.92	9	9
19g(1)(c)	N488	4.77	5.08	3	5
19g(1)(e)	K341	3.95	4.65	4	6
19g(1)(e)	K357	5.69	5.50	7	9
19g(3)(j)	J322	5.40	5.33	6	8
	REMOVE OR REPLACE JETTISON OR EMERGENCY RELEASE SYSTEM ELECTRICAL COMPONENTS				
19h(2)	N497	5.75	5.42	9	17
	PERFORM OPERATIONAL CHECKS OF INTERNAL GUN ELECTRICAL SYSTEMS				
19h(2)	N498	5.04	5.38	7	16
	PERFORM OPERATIONAL CHECKS OF INTERNAL GUN ELECTRONIC SYSTEMS				
		4.81	5.57	4	9

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

TABLE 40

SELECTED TASKS NOT REFERENCED IN STS 462X0H PERFORMED BY MORE
THAN 10 PERCENT OF 462X0H RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
P530 ARM OR DISARM AIRCRAFT ARMAMENT SYSTEMS	6.38	3.71	54	56
G198 INSPECT EXTERNAL BOMB OR EJECTOR RACK ELECTRICAL SYSTEMS	6.22	5.17	36	44
G199 INSPECT EXTERNAL BOMB OR EJECTOR RACK STRUCTURAL COMPONENTS	6.17	4.86	37	44
P548 REMOVE OR INSTALL IMPULSE CARTRIDGES	6.14	3.15	58	57
L407 CLEAR MALFUNCTIONED OR JAMMED INTERNAL GUN SYSTEMS	6.12	6.33	11	23
I274 TROUBLESHOOT CONVENTIONAL BOMBING MECHANICAL SYSTEMS	6.03	6.24	24	28
G221 INSPECT PYLON STRUCTURAL COMPONENTS	5.87	4.76	33	43
K347 BENCH CHECK ARMAMENT SYSTEM ELECTRONIC COMPONENTS	5.81	5.82	15	16
G220 INSPECT PYLON ELECTRICAL SYSTEMS	5.79	5.30	34	41
I255 REMOVE OR REPLACE AIRCRAFT INSTALLED CANNON PLUGS	5.75	6.64	24	31
P538 LOAD PRELOADED CONVENTIONAL MUNITIONS ONTO AIRCRAFT	5.73	4.46	42	34
K394 TROUBLESHOOT BOMB OR EJECTOR RACK ELECTRICAL COMPONENTS	5.69	6.05	16	18
K399 TROUBLESHOOT PYLON ELECTRICAL COMPONENTS	5.64	5.86	14	18
I284 TROUBLESHOOT JETTISON OR EMERGENCY RELEASE MECHANICAL SYSTEMS	5.53	6.05	14	20
P547 PRE-POSITION MUNITIONS PRIOR TO LOADING ONTO AIRCRAFT	4.96	3.07	33	36
P531 LOAD CHAFF DISPENSERS ONTO AIRCRAFT	4.75	4.24	47	39

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS
CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS
CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

*** ADDITIONAL TASKS NOT REFERENCED CAN BE FOUND AT THE END OF THE STS COMPUTER PRINTOUT IN THE
462X0H TRAINING EXTRACT.

TABLE 41

SELECTED TASKS MATCHED TO POI 3ABR46230H PERFORMED BY FEW 462XOH RESPONDENTS

POI BLOCK	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
V12A	0509 INSPECT MUNITIONS HANDLING TRAILERS	4.36	4.80	9	14
V13A	T657 OPERATE GENERATOR SETS	5.22	2.98	22	19
V13A	T652 OPERATE AIR COMPRESSORS	3.88	2.81	19	23
V13C	T659 OPERATE HYDRAULIC MULES	2.77	5.11	6	6
V112A	K338 ASSEMBLE OF DISASSEMBLE BOMB OR EJECTOR RACK COMPONENTS	6.14	5.32	22	22
V112A	K359 BENCH CHECK MULTIPLE EJECTOR RACKS, TRIPLE EJECTOR RACKS, OR BOMB RELEASE UNITS (MERS, TERS, BRUs)	5.99	5.07	18	18
V112A	L415 INSPECT INTERNAL GUN SYSTEM MECHANICAL COMPONENTS	5.84	5.27	9	23
V112A	L414 INSPECT INTERNAL GUN SYSTEM ELECTRICAL COMPONENTS	5.66	5.35	11	21
V112A	K388 REMOVE OR REPLACE BOMB OR EJECTOR RACKS FROM SUBASSEMBLIES	5.56	4.43	15	18
V112A	N484 INSPECT MULTIPLE EJECTOR RACKS, TRIPLE EJECTOR RACKS, OR BOMB RELEASE UNITS (MERS, TERS, BRUs)	5.48	4.97	25	29
V113A	G227 INSPECT, CLEAN, AND LUBRICATE EXTERNAL ROCKET LAUNCHER MECHANICAL COMPONENTS	4.84	4.77	4	6
V113A	K355 BENCH CHECK DISPENSERS	4.81	4.92	9	9
V113A	K344 ASSEMBLE OR DISASSEMBLE ROCKET LAUNCHER COMPONENTS	4.77	5.08	3	5
V113A	N477 INSPECT DISPENSERS	4.22	4.71	25	21
V113A	N488 INSPECT ROCKET LAUNCHERS	3.95	4.65	4	6
X112A	L405 CLEAN AND LUBRICATE GUN SYSTEMS	5.77	4.30	17	32
X112A	M444 CLEAN AND KORROSION TREAT GUN SYSTEM COMPONENTS	5.56	4.74	10	16
X112A	N481 INSPECT INTERNAL GUN SYSTEMS	5.25	5.29	12	21
X112A	N459 PERFORM IN-SHOP INSPECTIONS OF INTERNAL GUN SYSTEMS OR COMPONENTS	5.06	5.26	7	10
X114A	L422 PERFORM FUNCTIONAL CHECKS OF INTERNAL GUN ELECTRICAL SYSTEMS	6.14	4.86	18	33
X114A	L428 PERFORM OPERATIONAL CHECKS OF INTERNAL GUN SYSTEMS	5.90	5.13	12	22
X114B	N497 PERFORM OPERATIONAL CHECKS OF INTERNAL GUN ELECTRICAL SYSTEMS	5.04	5.38	7	16

TABLE 41 (CONTINUED)

SELECTED TASKS MATCHED TO POI 3ABR46230H PERFORMED BY FEW 462X0H RESPONDENTS

POI BLOCK	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
XII4B	N498				
	PERFORM OPERATIONAL CHECKS OF INTERNAL GUN ELECTRONIC SYSTEMS	4.81	5.57	4	9
XII4B	L423	4.69	5.36	6	14
XII4C	L403	5.84	4.86	15	27
XII4C	L408	4.64	5.57	7	13
XIII2A	G222				
	INSPECT, CLEAN, AND LUBRICATE ARMAMENT BAY DOOR SYSTEM MECHANICAL COMPONENTS	4.43	5.15	11	21
XIII2A	G193	4.38	5.40	12	24
XIII2A	N475	3.54	4.94	9	18
XIII2A	J298	3.53	5.80	25	35
XIII3A	J334	3.64	6.46	14	22
XIII3A	N502	3.46	5.93	4	7
	RIG MECHANICAL BOMB RELEASE SYSTEMS				

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

TABLE 42

SELECTED TASKS NOT REFERENCED IN POI 3ABR46230H PERFORMED BY MORE
THAN 30 PERCENT OF 462X0H RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
P530 ARM OR DISARM AIRCRAFT ARMAMENT SYSTEMS	6.38	3.71	54	56
G199 INSPECT EXTERNAL BOMB OR EJECTOR RACK STRUCTURAL COMPONENTS	6.17	4.86	37	44
I548 REMOVE OR INSTALL IMPULSE CARTRIDGES	6.14	3.15	58	57
G221 INSPECT PYLON STRUCTURAL COMPONENTS	5.87	4.76	33	43
P538 LOAD PRELOADED CONVENTIONAL MUNITIONS ONTO AIRCRAFT	5.73	4.46	42	34
P547 PRE-POSITION MUNITIONS PRIOR TO LOADING ONTO AIRCRAFT	4.96	3.07	33	36
P531 LOAD CHAFF DISPENSERS ONTO AIRCRAFT	4.75	4.24	47	39

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

FB-111A TRAINING DOCUMENTS

STS 462X0J. Selected tasks matched to the FB-111A portion of the 462X0 STS which few AFS 462X0J respondents perform are listed in Table 43. Since few of the respondents reported performing the tasks in Table 43, each of the associated STS subparagraphs should be examined by subject-matter specialists to determine if changes in the STS are necessary. Table 44 contains tasks with high percent members performing that were not referenced to an STS paragraph. The tasks in Table 44 should be considered for possible addition to the J-shred portion of the 462X0 STS.

POI 3ABR46230J. Table 45 shows that only small percentages of J-shred respondents perform tasks matched to POI objectives IX2A and IX2B. Subject-matter experts should evaluate the task data to determine whether the tasks presented in Table 45 could be taught more effectively by OJT. The tasks listed in Table 46 were not referenced to the POI but deserve consideration for possible inclusion in the course. The unmatched tasks should be reviewed because they were rated average or above average in training emphasis and in training difficulty, and were performed by 30 percent or more of first-job and first-enlistment FB-111A personnel.

TABLE 43

SELECTED TASKS MATCHED TO STS 462X0J PERFORMED BY FEW 462X0J RESPONDENTS

STS PARAGRAPH	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
21f(3)(a)	J321 REMOVE OR REPLACE JETTISON AND EMERGENCY RELEASE SYSTEM ELECTRONIC COMPONENTS	5.56	5.45	9	11
21f(3)(a)	J305 REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS MONITOR AND CONTROL SYSTEM ELECTRONIC COMPONENTS	5.32	5.90	10	9
21f(4)(a)	I261 TROUBLESHOOT AIRCRAFT NUCLEAR WEAPONS MONITOR AND CONTROL SOLID-STATE CIRCUIT SYSTEMS	5.06	7.62	9	9
21f(4)(a)	I264 TROUBLESHOOT AIRCRAFT NUCLEAR WEAPONS RELEASE SOLID- STATE CIRCUIT SYSTEMS	4.87	7.43	7	8
21f(4)(a)	I285 TROUBLESHOOT JETTISON OR EMERGENCY RELEASE SOLID- STATE CIRCUIT SYSTEMS	4.58	7.08	9	10
21f(4)(a)	I270 TROUBLESHOOT BUILT-IN TEST EQUIPMENT SYSTEMS	3.71	6.98	4	5
21f(8)	I280 TROUBLESHOOT FLARE, PHOTOFLASH, OR CHAFF DISPENSING ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE	4.35	6.79	3	2
21f(8)	I281 TROUBLESHOOT FLARE, PHOTOFLASH, OR CHAFF DISPENSING MECHANICAL SYSTEMS	4.08	6.00	3	2
21f(8)	I282 TROUBLESHOOT FLARE, PHOTOFLASH, OR CHAFF DISPENSING SOLID-STATE CIRCUIT SYSTEMS	3.61	7.23	2	1
21f(8)	J313 REMOVE OR REPLACE CHAFF DISPENSING SYSTEM ELECTRICAL COMPONENTS	3.61	5.32	2	1
21g(2)	S615 COORDINATE WEAPON ESCORTS WITH SECURITY POLICE	.97	4.01	6	10

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

TABLE 44

SELECTED TASKS NOT REFERENCED IN STS 462X0J PERFORMED BY MORE
THAN 10 PERCENT OF 462X0J RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
F172 LOCATE PART NUMBERS FROM ILLUSTRATED PARTS BREAKDOWNS	6.75	3.89	34	31
J303 REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS RELEASE SYSTEM MECHANICAL COMPONENTS	6.30	4.87	35	30
I263 TROUBLESHOOT AIRCRAFT NUCLEAR WEAPONS RELEASE MECHANICAL SYSTEMS	5.83	6.22	19	16
I255 REMOVE OR REPLACE AIRCRAFT INSTALLED CANNON PLUGS	5.75	6.64	35	29
K373 OVERHAUL BOMB OR EJECTOR RACKS	5.68	5.57	22	16
I259 SPLICE OR REPLACE DEFECTIVE AIRCRAFT INSTALLED WIRING	5.65	6.17	22	19
I284 TROUBLESHOOT JETTISON OR EMERGENCY RELEASE MECHANICAL SYSTEMS	5.53	6.05	16	15
J304 REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS RELEASE SYSTEM WIRING HARNESES	5.14	6.59	22	17
K398 TROUBLESHOOT PYLON ADAPTER ELECTRICAL COMPONENTS	5.05	6.08	13	10
K392 TROUBLESHOOT ARMAMENT SYSTEM ELECTRICAL UNIT CABLE ASSEMBLIES	4.99	5.96	13	11
P531 LOAD CHAFF DISPENSERS ONTO AIRCRAFT	4.75	4.24	43	42
T658 OPERATE HEATERS	4.71	2.78	48	42
P551 UNLOAD CHAFF DISPENSERS FROM AIRCRAFT	4.17	3.98	34	36

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

*** ADDITIONAL TASKS NOT REFERENCED CAN BE FOUND AT THE END OF THE STS COMPUTER PRINTOUT IN THE 462X0J TRAINING EXTRACT.

TABLE 45

SELECTED TASKS MATCHED TO POI 3ABR462X0J PERFORMED BY FEW 462X0J RESPONDENTS

POI BLOCK	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
IX2A	K352	6.25	4.99	23	19
IX2A	I273				
	BENCH CHECK BOMB RACKS				
	TROUBLESHOOT CONVENTIONAL BOMBING ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE	6.03	6.82	18	16
IX2A	I274	6.03	6.24	13	15
IX2A	K359				
	TROUBLESHOOT CONVENTIONAL BOMBING MECHANICAL SYSTEMS				
	BENCH CHECK MULTIPLE EJECTOR RACKS, TRIPLE EJECTOR RACKS, OR BOMB RELEASE UNITS (NERS, TERS, BRUs)	5.99	5.07	18	16
IX2A	K361	5.95	4.97	22	18
IX2A	K347	5.81	5.82	19	15
IX2A	I283				
	BENCH CHECK PYLONS				
	BENCH CHECK ARMAMENT SYSTEM ELECTRONIC COMPONENTS	5.71	6.55	21	16
	TROUBLESHOOT JETTISON OR EMERGENCY RELEASE ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE				
IX2A	I260				
	TROUBLESHOOT AIRCRAFT NUCLEAR WEAPONS MONITOR AND CONTROL ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE	5.65	7.10	21	15
IX2A	K399	5.64	5.86	21	16
IX2A	I262				
	TROUBLESHOOT PYLON ELECTRICAL COMPONENTS				
	TROUBLESHOOT AIRCRAFT NUCLEAR WEAPONS RELEASE ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE	5.40	7.00	23	16
IX2A	I261				
	TROUBLESHOOT AIRCRAFT NUCLEAR WEAPONS MONITOR AND CONTROL SOLID-STATE CIRCUIT SYSTEMS	5.06	7.62	9	9
IX2A	I275				
	TROUBLESHOOT CONVENTIONAL BOMBING SOLID-STATE CIRCUIT SYSTEMS				
IX2A	G212	4.96	7.22	9	8
IX2A	I264	4.91	5.33	21	21
	INSPECT INTERNAL MISSILE LAUNCH ELECTRICAL SYSTEMS				
	TROUBLESHOOT AIRCRAFT NUCLEAR WEAPONS RELEASE SOLID- STATE CIRCUIT SYSTEMS	4.87	7.43	7	8
IX2A	G213				
	INSPECT INTERNAL MISSILE LAUNCH SYSTEM STRUCTURAL COMPONENTS	4.79	5.18	21	22
IX2A	I285				
	TROUBLESHOOT JETTISON OR EMERGENCY RELEASE SOLID-STATE CIRCUIT SYSTEMS	4.58	7.08	9	10
IX1A	J324	4.13	5.39	13	11
	REMOVE OR REPLACE MISSILE LAUNCH AND CONTROL SYSTEM ELECTRONIC COMPONENTS				

TABLE 45 (CONTINUED)

SELECTED TASKS MATCHED TO POI 3ABR462X0J PERFORMED BY FEW 462X0J RESPONDENTS

POI BLOCK	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
IX2A	J328 REMOVE OR REPLACE MISSILE LAUNCH AND CONTROL SYSTEM ELECTRICAL COMPONENTS	4.01	5.44	16	13
IX2A	I270 TROUBLESHOOT BUILT-IN TEST EQUIPMENT SYSTEMS	3.71	6.98	4	5
IX2A	I287 TROUBLESHOOT MISSILE LAUNCH AND CONTROL ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE	3.76	6.80	10	9
IX2A	I291 TROUBLESHOOT MISSILE LAUNCH AND CONTROL SOLID-STATE CIRCUIT SYSTEMS	2.86	7.62	1	4
IX2B	J302 REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS MONITOR, CONTROL, OR RELEASE SYSTEM ELECTRICAL COMPONENTS	6.10	4.83	26	23
IX2B	J122 REMOVE OR REPLACE JETTISON OR EMERGENCY RELEASE SYSTEM ELECTRICAL COMPONENTS	5.75	5.42	15	13
IX2A	J317 REMOVE OR REPLACE CONVENTIONAL BOMBING SYSTEM ELECTRICAL COMPONENTS	5.60	5.16	22	18
IX2B	J321 REMOVE OR REPLACE JETTISON AND EMERGENCY RELEASE SYSTEM ELECTRONIC COMPONENTS	5.56	5.45	9	11
IX2B	J305 REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS MONITOR AND CONTROL SYSTEM ELECTRONIC COMPONENTS	5.32	5.90	10	9
IX2B	N490 INSPECT WEAPONS ARMAMENT CONTROL SYSTEM COMPONENTS	5.29	5.44	19	16
IX2B	J306 REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS RELEASE SYSTEM ELECTRONIC COMPONENTS	5.21	5.80	16	13
IX2B	J315 REMOVE OR REPLACE CONVENTIONAL BOMBING SYSTEM ELECTRONIC COMPONENTS	5.18	5.24	16	15
IX2B	N491 INSPECT WEAPONS MONITOR AND CONTROL SYSTEM COMPONENTS	5.12	5.53	12	10

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

TABLE 46

SELECTED TASKS NOT REFERENCED IN POI 3ABR46230J PERFORMED BY MORE
THAN 30 PERCENT OF 462X0J RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
F172 LOCATE PART NUMBERS FROM ILLUSTRATED PARTS BREAKDOWNS	6.75	3.89	34	31
J303 REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS RELEASE SYSTEM MECHANICAL COMPONENTS	6.30	4.87	35	30
P531 LOAD CHAFF DISPENSERS ONTO AIRCRAFT	4.75	4.24	43	42
T658 OPERATE HEATERS	4.71	2.78	48	42
P551 UNLOAD CHAFF DISPENSERS FROM AIRCRAFT	4.17	3.98	34	36

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE
AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE
AVERAGE IN DIFFICULTY.

B-52G/H TRAINING DOCUMENTS

STS 462X0K. A comprehensive analysis of the 462X0K portion of the Aircraft Armament Systems STS identified several areas which should be reviewed by qualified training personnel. One of the areas to be reviewed is presented in Table 47; the table lists tasks performed by few of the K-shred respondents. Training managers should examine the tasks and associated STS paragraphs presented in Table 47 to determine whether changes in the STS are warranted. In addition, the tasks in Table 48 should be examined because, although they were not matched to an STS subparagraph, they were performed by moderate to large percentages of K-shred respondents.

POI 3ABR46230K. In general, data corresponding to tasks matched to the K-shred POI supported the POI as written. However, POI objective VIII3B is matched to three tasks performed by less than 30 percent of first-job or first-enlistment personnel (see Table 49). Subject-matter specialists should review the task data to establish whether the types of tasks presented could be more efficiently trained in OJT as opposed to technical training school. Another area recommended for further review is the selected tasks in Table 50. The five tasks listed in Table 50 were not referenced to the POI, but were performed by over 30 percent of first-job and first-enlistment personnel. The tasks should be examined for possible inclusion in the POI because of the large percentages of K-shred personnel who reported performing the selected tasks.

TABLE 47

SELECTED TASKS MATCHED TO STS 462X0K PERFORMED BY FEW 462X0K RESPONDENTS

STS PARAGRAPH	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
22g(3)(a)	J317 REMOVE OR REPLACE CONVENTIONAL BOMBING SYSTEM ELECTRICAL COMPONENTS	5.60	5.16	9	11
22g(3)(a)	K353 BENCH CHECK BOMB RELEASE INTERVAL CONTROL (BRIC) UNITS	4.90	5.99	8	8
22g(3)(a)	I292 TROUBLESHOOT RELEASE PULSE INDICATOR ELECTRICAL SYSTEMS	3.74	7.18	8	11
22g(3)(a)	J333 REMOVE OR REPLACE RELEASE PULSE INDICATOR SYSTEM ELECTRICAL COMPONENTS	3.31	5.46	4	5
22g(7)	I280 TROUBLESHOOT FLARE, PHOTOFLASH, OR CHAFF DISPENSING ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE	4.35	6.79	3	5
22g(7)	I281 TROUBLESHOOT FLARE, PHOTOFLASH, OR CHAFF DISPENSING MECHANICAL SYSTEMS	4.08	6.00	1	2
22g(7)	J320 REMOVE OR REPLACE FLARE SYSTEM ELECTRICAL COMPONENTS	3.87	5.28	1	2

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

TABLE 48

SELECTED TASKS NOT REFERENCED IN STS 462XOK PERFORMED BY MORE
THAN 10 PERCENT OF 462XOK RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
J299 REMOVE OR INSTALL BOMB OR EJECTOR RACKS	6.26	4.35	43	41
I255 REMOVE OR REPLACE AIRCRAFT INSTALLED CANNON PLUGS	5.75	6.64	20	25
I258 REMOVE OR REPLACE AIRCRAFT INSTALLED SWITCHES	5.66	5.55	12	17
I257 REMOVE OR REPLACE AIRCRAFT INSTALLED RELAYS	5.26	6.11	13	18
T658 OPERATE HEATERS	4.71	2.78	39	46
T662 OPERATE MB-4 COLEMAN TOW VEHICLES	3.35	3.53	53	64
T663 OPERATE TUGS	2.84	3.13	42	44
S611 ATTACH MUNITIONS TO CRADLES OR ADAPTERS FOR TRANSPORT	2.48	3.22	33	38

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

*** ADDITIONAL TASKS NOT REFERENCED CAN BE FOUND AT THE END OF THE STS COMPUTER PRINTOUT IN THE 462XOK TRAINING EXTRACT.

TABLE 49

SELECTED TASKS MATCHED TO POI 3ABR46230K PERFORMED BY FEW
462X0K RESPONDENTS

POI BLOCK	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
V1113B	J302 REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS MONITOR, CONTROL, OR RELEASE SYSTEM ELECTRICAL COMPONENTS	6.10	4.83	22	27
V1113B	J305 REMOVE OR REPLACE AIRCRAFT NUCLEAR WEAPONS MONITOR AND CONTROL SYSTEM ELECTRONIC COMPONENTS	5.32	5.90	13	14
V1113B	N491 INSPECT WEAPONS MONITOR AND CONTROL SYSTEM COMPONENTS	5.12	5.53	22	19

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE
AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE
AVERAGE IN DIFFICULTY.

TABLE 50

SELECTED TASKS NOT REFERENCED IN POI 3ABR46230K PERFORMED BY MORE
THAN 30 PERCENT OF 462X0K RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
J299 REMOVE OR INSTALL BOMB OR EJECTOR RACKS	6.36	4.35	43	41
T658 OPERATE HEATERS	4.71	2.78	39	46
T662 OPERATE MB-4 COLEMAN TOW VEHICLES	3.35	3.53	53	46
T663 OPERATE TUGS	2.84	3.13	42	44
S611 ATTACH MUNITIONS TO CRADLES OR ADAPTERS FOR TRANSPORT	2.48	3.22	33	38

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

Z-SHRED TRAINING DOCUMENTS

STS 462X0Z. Table 51 lists selected tasks matched to paragraph 25 of the 462X0 STS and performed by few Z-shred respondents. The tasks in Table 51 should be reviewed, along with the corresponding STS paragraphs, to determine if changes in the STS are warranted due to the low percentages of people performing these tasks. Conversely, the tasks presented in Table 52 were performed by over 10 percent of Z-shred personnel and were rated average or above average in training emphasis and in training difficulty, but were not matched to any STS paragraphs. These tasks should be reviewed to establish whether the STS should be modified to include them.

POI 3ABR46230Z. A comprehensive analysis of task data matched to Z-shred POI objectives indicated that Z-shred incumbents are receiving training on many tasks which a relatively small portion of the first-job and first-enlistment respondents perform (see Table 53). Training managers should review task data to determine if training the tasks presented in Table 53 through OJT would be more effective. POI objectives VII2B, VII3B, VIII1C, and VIII2C should also be reviewed, because all of the tasks matched to POI objective VIII1C and presented in Table 53 were also matched to these objectives.

In addition, due to the average or above average training emphasis and training difficulty ratings and because of the large percentages of incumbents performing, the unmatched tasks presented in Table 54 should be evaluated for possible inclusion in the training conducted at the school.

TABLE 51

SELECTED TASKS MATCHED TO STS 462X0Z PERFORMED BY FEW 462X0Z RESPONDENTS

STS PARAGRAPH	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
25c(7)(b)	L426	5.26	4.04	5	10
25c(10)	L408	4.64	5.57	0	0
25g(1)(e)	K341	5.69	5.50	10	8
25g(4)(a)	1275	4.96	7.22	8	6
25g(4)(a)	K395	4.69	5.86	8	12
25g(4)(a)	N495	4.68	5.43	10	8
25g(4)(a)	1278	3.92	7.11	3	2
25g(4)(b)	K397	5.09	6.17	10	8
25g(4)(b)	N500	4.53	5.45	3	2
25g(4)(b)	N499	4.52	5.30	10	8
25g(4)(b)	1287	3.65	6.80	8	8
25g(4)(b)	1291	2.86	7.62	3	2
25g(4)(c)	N498	4.81	5.57	8	12

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

TABLE 52

SELECTED TASKS NOT REFERENCED IN STS 462X02 PERFORMED BY MORE
THAN 10 PERCENT OF 462X02 RESPONDENTS

TASKS	TRAINING TASK EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
F172 LOCATE PARTS NUMBERS FROM ILLUSTRATED PARTS BREAKDOWNS	6.75	3.89	38	45
P530 ARM OR DISARM AIRCRAFT ARMAMENT SYSTEMS	6.38	3.71	59	59
L407 CLEAR MALFUNCTIONED OR JAMMED INTERNAL GUN SYSTEMS	6.12	6.33	18	22
I274 TROUBLESHOOT CONVENTIONAL BOMBING MECHANICAL SYSTEMS	6.03	6.24	21	18
L439 TROUBLESHOOT INTERNAL GUN MECHANICAL SYSTEMS	5.87	5.89	18	22
K365 CLEAN AND CORROSION TREAT WEAPONS RELEASE COMPONENTS	5.87	4.10	44	41
I255 REMOVE OR REPLACE AIRCRAFT INSTALLED CANNON PLUGS	5.75	6.64	41	39
I258 REMOVE OR REPLACE AIRCRAFT INSTALLED SWITCHES	5.66	5.55	31	31
I284 TROUBLESHOOT JETTISON OR EMERGENCY RELEASE MECHANICAL SYSTEMS	5.53	6.05	36	35
K393 TROUBLESHOOT ARMAMENT SYSTEM ELECTRONIC COMPONENTS	5.44	6.49	15	16
I257 REMOVE OR REPLACE AIRCRAFT INSTALLED RELAYS	5.26	6.11	18	16
J318 REMOVE OR REPLACE CONVENTIONAL BOMBING SYSTEM ELECTRICAL WIRING HARNESES OR CABLES	5.26	5.66	13	12
N478 INSPECT ELECTRICAL WIRING OR HARNESES	5.19	5.03	31	35
N488 INSPECT ROCKET LAUNCHERS	3.95	4.65	33	29
I295 TROUBLESHOOT ROCKET LAUNCHER MECHANICAL SYSTEMS	3.94	5.97	31	26

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

*** ADDITIONAL TASKS NOT REFERENCED CAN BE FOUND AT THE END OF THE STS COMPUTER PRINTOUT IN THE 462X02 TRAINING EXTRACT.

TABLE 53

SELECTED TASKS MATCHED TO POI 3ABR462X02 PERFORMED BY FEW 462X02 RESPONDENTS

POI BLOCK	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
VIIB	0508 INSPECT BOMB LIFT TRUCKS	5.05	3.59	8	6
VI2A	0509 INSPECT MUNITIONS HANDLING TRAILERS	4.36	3.80	8	6
VI5A	T652 OPERATE AIR COMPRESSORS	3.88	2.81	20	26
VIIIC	L415 INSPECT INTERNAL GUN SYSTEM MECHANICAL COMPONENTS	5.84	5.27	13	16
VIIIC	L405 CLEAN AND LUBRICATE GUN SYSTEMS	5.77	4.30	26	29
VIIIC	L414 INSPECT INTERNAL GUN SYSTEM ELECTRICAL COMPONENTS	5.66	5.35	13	16
VIIIC	L434 REMOVE OR REPLACE INTERNAL GUN SYSTEMS	5.52	5.67	26	29
VIIIC	N481 INSPECT INTERNAL GUN SYSTEMS	5.25	5.29	26	29
VIIIC	M459 PERFORM IN-SHOP INSPECTIONS OF INTERNAL GUN SYSTEMS OR COMPONENTS	5.06	5.26	10	18
VII2C	L403 BOPESIGHT GUN SYSTEMS	5.84	4.86	18	18
VII2C	L408 HARMONIZE GUN SYSTEMS	4.64	5.57	0	0
VIII4B	M468 REMOVE OR REPLACE 105MM RECOIL COMPONENTS	1.33	4.88	5	4
IX4C	G226 INSPECT, CLEAN, AND LUBRICATE EXTERNAL MISSILE LAUNCHER MECHANICAL COMPONENTS	5.55	4.84	13	10
IX4C	G227 INSPECT, CLEAN, AND LUBRICATE EXTERNAL ROCKET LAUNCHER MECHANICAL COMPONENTS	4.84	4.77	23	20
IX5B	K338 ASSEMBLE OR DISASSEMBLE BOMB OR EJECTOR RACK COMPONENTS	6.14	5.32	28	29
IX5B	G224 INSPECT, CLEAN, AND LUBRICATE EXTERNAL BOMB OR EJECTOR RACK MECHANICAL COMPONENTS	6.04	4.90	18	16
IX7B	G225 INSPECT, CLEAN, AND LUBRICATE EXTERNAL DISPENSER MECHANICAL COMPONENTS	5.12	4.83	10	8
IX7B	K340 ASSEMBLE OR DISASSEMBLE DISPENSER COMPONENTS	4.90	5.35	15	16
IX7B	N477 INSPECT DISPENSERS	4.22	4.71	20	22
IX8B	G223 INSPECT, CLEAN, AND LUBRICATE EJECTOR UNITS	5.91	4.75	15	14
IX8B	N484 INSPECT MULTIPLE EJECTOR RACKS, TRIPLE EJECTOR RACKS, OR BOMB RELEASE UNITS (MERS, TERS, BRUs)	5.48	4.97	20	16
X1A	K347 BENCH CHECK ARMAMENT SYSTEM ELECTRONIC COMPONENTS	5.81	5.82	20	20
X1A	J322 REMOVE OR REPLACE JETTISON OR EMERGENCY RELEASE SYSTEM ELECTRICAL COMPONENTS	5.75	5.42	20	20

TABLE 53 (CONTINUED)

SELECTED TASKS MATCHED TO POI 3ABR462X0Z PERFORMED BY FEW 462X0Z RESPONDENTS

POI BLOCK	TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
				FIRST- JOB	FIRST- ENLISTMENT
X1A	K351 BENCH CHECK ARMAMENT SYSTEM RELAY PANELS	5.55	5.78	13	14
X1A	J315 REMOVE OR REPLACE CONVENTIONAL BOMBING SYSTEM ELECTRONIC COMPONENTS	5.18	5.24	13	12
X12A	H248 PERFORM OPERATIONAL CHECKS OF MISSILE LAUNCH AND CONTROL SYSTEMS	5.26	5.28	13	14
X12A	K397 TROUBLESHOOT MISSILE LAUNCHER ELECTRICAL COMPONENTS	5.09	6.17	10	8
X12A	N500 PERFORM OPERATIONAL CHECKS OF MISSILE LAUNCH ELECTRONIC SYSTEMS	4.53	5.45	3	2
X12A	N499 PERFORM OPERATIONAL CHECKS OF MISSILE LAUNCH ELECTRICAL SYSTEMS	4.52	5.30	10	8
X12A	I287 TROUBLESHOOT MISSILE LAUNCH AND CONTROL ELECTRICAL SYSTEMS OTHER THAN SOLID-STATE	3.65	6.80	8	8
X12A	I291 TROUBLESHOOT MISSILE LAUNCH AND CONTROL SOLID-STATE CIRCUIT SYSTEMS	2.86	7.62	3	2

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

TABLE 54

SELECTED TASKS NOT REFERENCED IN POI 3ABR46230Z PERFORMED BY MORE
THAN 30 PERCENT OF 462X0Z RESPONDENTS

TASKS	TRAINING EMPHASIS*	TASK DIFFICULTY**	PERCENT MEMBERS PERFORMING	
			FIRST- JOB	FIRST- ENLISTMENT
F172 LOCATE PART NUMBERS FROM ILLUSTRATED PARTS BREAKDOWNS	6.75	3.89	38	45
P530 ARM OR DISARM AIRCRAFT ARMAMENT SYSTEMS	6.38	3.71	59	59
P533 LOAD CONVENTIONAL MUNITIONS OTHER THAN AMMUNITION ONTO AIRCRAFT	6.19	4.56	31	31
K365 CLEAN AND CORROSION TREAT WEAPONS RELEASE COMPONENTS	5.87	4.10	44	41
I255 REMOVE OR REPLACE AIRCRAFT INSTALLED CANNON PLUGS	5.75	6.64	41	39
I258 REMOVE OR REPLACE AIRCRAFT INSTALLED SWITCHES	5.66	5.55	31	31
I284 TROUBLESHOOT JETTISON OR EMERGENCY RELEASE MECHANICAL SYSTEMS	5.53	6.05	36	35
N478 INSPECT ELECTRICAL WIRING OR HARNESES	5.19	5.03	31	35

* SINCE THE AVERAGE TRAINING EMPHASIS RATING WAS 3.10, A TASK WITH A RATING OF 5.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN TRAINING EMPHASIS.

** SINCE THE AVERAGE TASK DIFFICULTY RATING WAS 5.00, A TASK WITH A RATING OF 6.00 OR HIGHER IS CONSIDERABLY ABOVE AVERAGE IN DIFFICULTY.

DISCUSSION

The training emphasis and task difficulty ratings reported in this study were collected to help Air Force decision makers address the very complex training needs of the Aircraft Armament Systems career field. These data were compared with information from the November 1981 Aircraft Armament Systems OSR to review the present training documents and programs.

An assessment of the 462X0 STSs and POIs revealed that, for the most part, the training documents are adequate as written. However, the survey data in this report and the attached 462X0 training extracts should be reviewed by subject-matter experts to determine if the areas highlighted warrant modification.

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