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UNITED STATES AIR FORCE

OCCUPATIONAL SURVEY REPORT

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AIRCRAFT CONTROL AND WARNING RADAR
CAREER LADDER

AFSC 303X2
AFPT 90-303-543
JULY 1985

OCCUPATIONAL ANALYSIS PROGRAM
USAF OCCUPATIONAL MEASUREMENT CENTER
AIR TRAINING COMMAND
RANDOLPH AFB, TEXAS 78150
DISTRIBUTION FOR
AFSC 303X2 OSR AND SUPPORTING DOCUMENTS

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PREFACE

This report presents the results of a detailed Air Force Occupational Survey of the Aircraft Control and Warning Radar career ladder (AFSC 303X2). The project was undertaken at the request of Keesler Technical Training Center, with priority established by the Occupational Analysis Program Priorities Working Group (PWG) in accordance with AFR 35-2. Computer printouts from which this report was produced are available for use by operating and training officials.

The survey instrument was developed by Chief Master Sergeant Donald J. Cochran, Inventory Development Specialist. Computer programming support for this project was provided by Sergeant Ray Tackett. Mr Hank Dubois, Occupational Analyst, analyzed the survey data and wrote the final report. This report has been reviewed and approved by Major Charles D. Gorman, Chief, Airman Career Ladders Analysis Section, Occupational Analysis Branch, USAF Occupational Measurement Center.

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

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Commander
USAF Occupational Measurement Center

CHARLES D. GORMAN, Major, USAF
Acting Chief
Occupational Analysis Branch
USAF Occupational Measurement Center
SUMMARY OF RESULTS

1. Survey Coverage: Job Inventory booklets were administered to Aircraft Control and Warning Radar personnel (AFSC 303X2) worldwide. Survey results are based on the responses of 764 incumbents (68 percent of the assigned personnel).

2. Specialty Jobs: The study identified 11 major jobs. A majority of incumbents were found to be performing primarily maintenance type tasks and were found in such jobs as Junior AC&W Radar Personnel, Fixed Radar Maintenance Personnel, Tactical Radar Maintenance Personnel, or Tactical Radar Crew Members. Job satisfaction across jobs varied, with smaller non-maintenance jobs expressing somewhat lower satisfaction.

3. Career Ladder Progression: Indicative of the 3-skill level job was a large amount of time spent performing general and preventive maintenance tasks, although 3-levels also performed tasks across all radar maintenance activities. Five-skill level personnel performed the same basic job, but spent a little less time on maintenance duties while assuming some supervisory responsibilities. Seven-skill level personnel were performing duties as workcenter NCOICs or nonsupervisory managers, spending only 20 percent of their job time performing technical tasks.

As time in service increased, there was a corresponding increase in the performance of duties involving management, supervision, and administration.

Job satisfaction indicators for first-enlistment 303X2 incumbents were very similar to those in other mission equipment maintenance career ladders.

4. Training Analysis: The 303X2 STS generally was supported by survey data, although a few unique elements need review due to low percent of members performing matched tasks. Analysis of the basic course POI revealed that, based on percent members performing tasks, the course is well supported and appears to meet the needs of entry level AC&W personnel. Managers do need to review the computerized listing of tasks not referenced to the POI which contains several tasks where the probability of performance for first-enlistment personnel is between 30 and 50 percent.

5. MAJCOM Comparisons: TAC was the major user of 303X2 personnel resources, followed, in order, by AFCC, USAFE, ATC, and PACAF. Of these commands, the jobs performed by TAC, USAFE, and PACAF were the most similar, although USAFE personnel spent much more time performing mobility-related tasks. AFCC personnel were best differentiated by the time spent performing duties involving management, radar evaluation, and engineering installation. As expected, ATC personnel were performing resident classroom training and were not performing any operational maintenance.
6. **CONUS Versus Overseas Group Analysis:** Overall, the jobs performed by these two groups of AC&W radar personnel were very similar, although due to the mobile AC&W radar mission overseas, mobility-related tasks were performed by a greater percentage of that group.

7. **Implications:** The 303X2 career ladder appears to be going through a significant equipment upgrading or replacement program; however, occupational survey data reflect that training programs appear to have been developed to keep abreast of changing technologies. In addition, although certain career ladder unique jobs may be an exception, job satisfaction indicators reflect a much more satisfied population than the last survey of the AC&W career ladder.
OCCUPATIONAL SURVEY REPORT
AIRCRAFT CONTROL AND WARNING RADAR CAREER LADDER
(303X2)

INTRODUCTION

This is an occupational survey report (OSR) of the Aircraft Control and Warning Radar career ladder (AFSC 303X2) completed by the Occupational Analysis Branch, USAF Occupational Measurement Center, in July 1985. The survey was conducted in response to a request from the career ladder training manager, Kessler Technical Training Center, to assess current training. The last survey of the 303X2 ladder was in 1980 and was part of a multiladder survey of three radar maintenance specialties (AFSCs 303X1, 303X2, and 303X3). That survey was accomplished for AFSC merger considerations and was thought to be too broad for an accurate evaluation of 303X2 training. The last single ladder survey report of the Aircraft Control and Warning (AC&W) Radar specialty was published in 1978.

Background

As outlined in the current AFR 39-1 Specialty Descriptions, Aircraft Control and Warning Radar personnel are responsible for installing, inspecting, maintaining, and repairing fixed or mobile ground types of aircraft control and warning radar, related radar operator training devices, and associated identification and test equipment. These incumbents may also perform duty as a height finder radar maintainer/operator. Aircraft control and warning radars generally are used to detect and identify aircraft in the defense of North America or Europe.

The 303X2 career ladder was created in 1953. In 1955, the 3- and 5-skill level personnel were subdivided into six shreds. Each shred specialized in the following types of equipment:

1955

303X2A - CPS/1/4/5
303X2B - TPS/ID/10D
303X2C - FPS/3/6
303X2D - CPS/6B
303X2E - FPS/4/8
303X2F - FPS/14

1957

303X2G - FST/2
303X2H - GPA/37

In 1957, two additional 3- and 5-skill level shreds were added. All eight shreds were deleted in early 1959. The 7-skill level designation remained basically unchanged from 1953 to the present.
Since the last OSR (May 1981), there has been an increase in the specialty in the amount of tactical/mobile equipment maintained. Generally, this mobile equipment is state-of-the-art as opposed to the older vacuum tube fixed equipment. In addition, fixed AC&W radar systems gradually are being upgraded or replaced with newer digital equipment.

Formal training for personnel desiring to enter the 303X2 specialty is available at Keesler AFB MS. This is a 32-week course in which future Aircraft Control and Warning Radar Repairmen are oriented in the areas of electronic principles, digital principles, radar subsystem principles, and preventive maintenance techniques. Upon completion of this course, graduates are awarded a 3-skill level and are assigned to various units worldwide.
SURVEY METHODOLOGY

Inventory Development

The data collection instrument for this occupational survey was USAF Job Inventory AFPT 90–303–543, dated January 1984. A preliminary task list was prepared after reviewing pertinent career ladder publications and directives, tasks from previous job inventories, and data from the last OSR. This preliminary task list was refined and validated through personal interviews with subject-matter specialists selected to cover a wide variety of AFS 303X2 equipment and functions at the following locations:

3395 TCHTG, Keesler AFB MS - Location of the basic AC&W radar course

2052 Comm Sq, Keesler AFB MS - 303X2 personnel maintain equipment in support of the technical school

1839 Engineering Installations Group, Keesler AFB MS - Assigned 303X2 personnel install or modify systems normally in teams TDY to sites

1954 Radar Evaluation Sq, Hill AFB UT - 303X2 personnel manage the Air Force Radar Technical Evaluation Program

727 Tactical Control Sq (Test), Hurlburt Fld FL - Responsible for personnel and equipment performance testing

2021 Comm Sq, Tyndall AFB FL - 303X2 personnel maintain communications-electronics equipment other than AC&W radar (ancillary support equipment)

507 Tactical Air Control Wg, Shaw AFB SC - Functional management location for communications-electronics maintenance matters

701 Radar Sq, Ft Fisher AFS NC - Representative "fixed" radar site

72 Tactical Control Flt, Ft Monroe AFS VA - Representative "mobile" radar site
This process resulted in a final job inventory containing a list of 797 tasks grouped within 18 duty headings. The inventory also included a background section asking such information as time spent TDY, maintenance experience, and questions on systems and associated equipment maintained or used on the job.

Survey Administration

From February through October 1984, Consolidated Base Personnel Offices (CBPO) at operational units worldwide administered the inventory to job incumbents holding DAFSC 303X2. These job incumbents were selected from a computer-generated mailing list obtained from personnel data tapes maintained by the Air Force Human Resources Laboratory (AFHRL).

Each individual who completed the inventory first completed an identification and background section and then checked each task performed in their current job. After checking all tasks performed, each member then rated each of these tasks on a 9-point scale showing relative time spent on that task, as compared to all other tasks checked. The ratings ranged from one (very small amount of time spent) through five (about average time spent) to nine (very large amount time spent).

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

Survey Sample

Personnel were selected to participate in this survey to ensure an accurate representation across major commands (MAJCOM) and paygrade groups. All eligible DAFS 303X2 personnel were mailed survey booklets. Table I shows the percentage distribution by major command, of assigned personnel in the career ladder as of August 1984. Also listed in this table is the percentage distribution, by MAJCOM, of respondents in the final survey sample. The 764 respondents included in the final sample represent 80 percent of the 303X2 career ladder personnel eligible for the survey. (Personnel projected for PCS, retirement, or discharge; those in hospital status, and those with less than 6 weeks on the job are not eligible for survey).

Table 2 reflects the paygrade group distribution, while Table 3 lists the sample distribution by TAFMS groups. As reflected in these tables, the survey sample provides a very good representation of the career ladder population.
### TABLE 1

**COMMAND REPRESENTATION OF SURVEY SAMPLE**

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<th>MAJOR COMMAND</th>
<th>PERCENT OF ASSIGNED</th>
<th>PERCENT OF SAMPLE</th>
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<td>TAC</td>
<td>49</td>
<td>53</td>
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<tr>
<td>AFCC</td>
<td>21</td>
<td>21</td>
</tr>
<tr>
<td>USAFE</td>
<td>16</td>
<td>14</td>
</tr>
<tr>
<td>ATC</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>PACAF</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>OTHERS</td>
<td>6</td>
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</tr>
</tbody>
</table>

TOTAL 303X2 PERSONNEL ASSIGNED - 1,121
TOTAL 303X2 PERSONNEL ELIGIBLE - 957
TOTAL 303X2 PERSONNEL SAMPLED - 764
PERCENT OF ASSIGNED SAMPLED - 68%
PERCENT OF ELIGIBLE SAMPLED - 80%

**NOTE:** Manning figures as of August 1984

### TABLE 2

**PAYGRADE REPRESENTATION OF SURVEY SAMPLE**

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<th>PERCENT OF ASSIGNED</th>
<th>PERCENT OF SAMPLE</th>
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<td>E-5</td>
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<td>E-6</td>
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<td>E-7</td>
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**TOTAL ACTIVE FEDERAL MILITARY SERVICE (TAFMS) DISTRIBUTION OF SURVEY SAMPLE**

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<th>MONTHS FEDERAL SERVICE</th>
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<th>97-144</th>
<th>145-192</th>
<th>193-240</th>
<th>241+</th>
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<td>98</td>
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<td>34</td>
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<td>PERCENT OF AFSC 303X2 ASSIGNED</td>
<td>50%</td>
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<td>11%</td>
<td>9%</td>
<td>14%</td>
<td>3%</td>
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<td>NUMBER IN AFSC 303X2 SAMPLE</td>
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<td>78</td>
<td>83</td>
<td>75</td>
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<td>27</td>
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<tr>
<td>PERCENT OF AFSC 303X2 SAMPLE</td>
<td>52%</td>
<td>10%</td>
<td>11%</td>
<td>10%</td>
<td>14%</td>
<td>3%</td>
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Task Factor Administration

In addition to completing the job inventory, selected senior 303X2 personnel (generally E-6 and E-7 technicians) were asked to complete a second booklet for either training emphasis (TE) or task difficulty (TD). Major command distribution of these raters appears in Table 4. The TE and TD booklets are processed separately from the job inventories. The rating information is used in several analyses discussed in detail within this report.

Task Difficulty. Each senior technician completing a task difficulty booklet is asked to rate all inventory tasks on a 9-point scale (from extremely low to extremely high) as to relative difficulty. Difficulty is defined as the length of time required by an average member to learn to do the task. Task difficulty data were independently collected from 46 experienced 7-skill level 303X2 personnel stationed worldwide, with all raters assessing the difficulty of inventory tasks. If raters were in complete agreement on task difficulty for the specialty, the interrater reliability would be 1.0. The 303X2 raters' interrater reliability was very good (.94) indicating general consensus on the ease or difficulty of different tasks within the AC&W radar career field. Task difficulty ratings were adjusted so tasks of average difficulty would have a 5.00 rating. The resulting data are essentially a rank ordering of tasks indicating the relative degree of difficulty for each task in the inventory.

Job Difficulty Index (JDI). After computing the 303X2 task difficulty index for each task item, a Job Difficulty Index (JDI) was computed for the job groups identified in the survey analysis. The index provides a relative measure of which jobs, when compared to other jobs identified, are more or less difficult. An equation using the number of tasks performed and the average difficulty per unit time spent (ADPUTS) as variables is the basis for the JDI. The index ranges from 1.0 for very easy jobs to 25.0 for very difficult jobs. The indices are adjusted so the average JDI is 13.00.

Training Emphasis. Experienced technicians completing training emphasis booklets were asked to rate tasks on a 10-point scale ranging from no training required (0) to extremely heavy training required (9). Training emphasis is a rating of which tasks require more emphasis in structured training for first-term personnel. Structured training is defined as training provided at resident technical schools, field training detachments (FTD), mobile training teams (MTT), formal OJT, or any other organized training method. Training emphasis data were independently collected from 73 experienced 303X2 7-skill level personnel stationed worldwide. As with task difficulty ratings, if all raters were in complete accord on what tasks were important for first-enlistment training, the interrater reliability would be 1.0. The 303X2 raters' interrater reliability was again very good (.97) indicating raters generally agreed on the tasks requiring some form of structured training to support first-enlistment jobs.

When used in conjunction with other information, such as percent members performing, task difficulty and training emphasis ratings can provide insight into training requirements. Such insights may suggest a need for lengthening or shortening portions of instruction supporting AFS entry-level jobs.
### Table 5

Relative Time Spent on Duties by Career Ladder Clusters and Independent Job Types  
(Percent Time Spent)

<table>
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<tr>
<th>DUTIES</th>
<th>RADAR MAINT SUPV (N=96)</th>
<th>QUALITY CONTROL INSPECTION (N=33)</th>
<th>PROGRAM MANAGERS (N=6)</th>
<th>JUNIOR AC&amp;W PERSONNEL (N=67)</th>
<th>FIXED RADAR MAINT PERSONNEL (N=159)</th>
<th>TACTICAL RADAR MAINT PERSONNEL (N=161)</th>
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* Denotes less than .5 percent
XI. INSTRUCTOR PERSONNEL (GRP040). All but 2 of these 33 incumbents are assigned to ATC, and 67 percent hold a DAFSC of 30352 and the remainder hold the 7-skill level. Three jobs are identifiable within this cluster. Differentiating factors among the three jobs are the amount of time spent in classroom training, maintenance tasks performed, and the amount of time spent in administrative functions. AC&W Radar Repair Instructors perform a few maintenance tasks in the process of providing radar repair instruction, with training representing 78 percent of their job time. The Electronic Principles Instructors spend 92 percent of their job time in training activities. Members of the third job type, Support Instructor Personnel, spend 17 percent of their time performing administrative tasks in support of formal instruction. Examples of tasks performed by the INSTRUCTOR PERSONNEL include:

- administer or score tests
- conduct technical school classroom training
- prepare lesson plans
- evaluate progress of technical school students
- write test questions
- develop performance tests

A review of job satisfaction data reveals these incumbents are among the most satisfied of all major job groups. For example, 91 percent find their jobs interesting and 94 percent perceive their talents are being utilized at least fairly well.

Summary

The 303X2 career ladder is fairly diverse, with a wide variety of jobs being performed by 303X2 personnel; however, the primary job of AC&W radar repair can be roughly divided into two large groups, one group involved with maintenance of tactical or mobile radar and related equipment of an advanced technology, and the other involving maintenance of older mostly vacuum tube type fixed radar systems. The tactical radar group performs a somewhat larger job because of additional tasks related to equipment and personnel mobility requirements. Job satisfaction expressed by these two groups was fairly good, with the tactical radar group expressing a slightly higher satisfaction. Across all the major jobs, the degree of job satisfaction was somewhat mixed, with the amount of satisfaction appearing to be directly related to narrowness of the job—the degree of satisfaction decreased with the size of the job.
Members of the second job type, Radar Evaluation Specialists, are all assigned to the 1954 Radar Evaluation Squadron (AFCC) and 80 percent of the incumbents hold a DAFSC of 30352. They spend 35 percent of their job time in unique radar evaluation activities and 21 percent in antenna and indicator operational checks. Differentiating tasks include:

- perform solar boresight and azimuth orientation checks
- prepare solar collection and reduction reports
- perform RHI operational checks
- perform antenna drive and control system operational checks
- perform signal distribution system operational checks

Only 54 percent of the members of this cluster reported finding their jobs interesting. Thirty-eight percent felt both their talents and training were used very little or not at all. Factors that might generate these perceptions may be the limited opportunity to use their extensive training or possibly the amount or frequency of TDY required by their job (42 percent reported performance of 61-180 days TDY during the last 12 months).

X. JOB CONTROLLERS (GRP214). Eighty-three percent of the members of this independent job type hold a DAFSC of 30352--the remainder possess a 30372. These personnel are responsible for job or maintenance control functions associated with AC&W radars and related equipment. They spend very little time on radar maintenance (5 percent) but, instead, perform a variety of administrative tasks (58 percent of their job time). They commonly perform such tasks as:

- update MMICS
- maintain status boards or job control boards
- conduct briefings
- document cannibalization
- report communication outages
- determine work priorities

These incumbents perform a very low average number of tasks (13), with the 6 tasks above making up 47 percent of their total job time. These incumbents perform the easiest job of all major job groups identified, having a JDI of 5.1. Job satisfaction indicators reflect the fact that these personnel perform a very narrow job, with only 33 percent finding their job interesting and only 17 percent perceiving their training is being utilized at least fairly well.
These respondents perform an average of 93 tasks and have a less than average JDI (11.0). They are very junior personnel (average paygrade of E-3) and average less than 2 years in service (20 months). Most of the incumbents are TAC resources (75 percent), with the remainder assigned to USAFE. Personnel in this group appeared to be satisfied with their job.

VIII. ENGINEERING INSTALLATION TEAM MEMBERS (GRP195). The job performed by this independent job type is somewhat similar to the previous job type—the difference being these members are responsible for fixed site installations (17 percent of their job time) and fixed antenna maintenance (22 percent of their job time). All are assigned to AFCC engineering installation units in CONUS. Typical tasks performed include:

- install or remove cable support systems
- install or remove fixed-site antennas
- remove or replace antenna slip ring assemblies
- construct cable troughs
- remove or replace elevation data generators
- remove or replace antenna sections
- remove or replace antenna reflectors
- measure antenna contours

This group also resembles the previous one in job size (average number of tasks = 76) and job difficulty (JDI = 11.0). They average 29 months in service and have an average paygrade of E-3. Although they find their job very interesting and somewhat satisfying, they feel their training and talents are used very little. Only 33 percent indicate favorable reenlistment intentions.

IX. RADAR EVALUATION PERSONNEL (GRP014). This group of senior NCOs (average paygrade of E-6) spend 61 percent of their job time in administrative or evaluation and inspection functions. These members perform a limited and specialized job (average number of tasks performed = 27). Two distinct job types are found in this cluster. Electronic Systems Analysts are all assigned to the 1833 Communications Squadron (AFCC) and hold a DAFSC of 30372. This group spends a significant amount of job time (32 percent) performing management functions of planning and implementing. Differentiating tasks include:

- conduct SAGE testing
- analyze trends in system malfunctions
- coordinate flight checks of installed equipment with chief of maintenance
- prepare inspection trend analyses
- analyze SAGE testing results
perform radar receiving system operations
   checks using BITE
pressurize SF6 tanks
erect mobile antennas
adjust digital MTI receivers
adjust side lobe receiver circuits
remove or replace solid-state devices
pack radar equipment for deployment or redeployment
perform signal distribution system operational checks
perform SIF system operational checks
level antenna pedestals
adjust cursor circuits

The mission of TACS is such that a significant number of these incumbents are overseas (40 overseas) and a majority are assigned to either TAC (54 percent) or USAFE (33 percent). Like the fixed radar cluster, this group has an average paygrade of E-4; however, they have slightly more time in service (an average of 64 months). Job satisfaction in this group appears very good, with 85 percent reporting they find their job interesting. Ninety-two percent perceived their training to be utilized at least fairly well.

There are four jobs identified in the cluster—two journeyman repairmen jobs and two corresponding supervisory jobs. Tactical Radar Repairmen perform the generic job within this cluster, that is, TPS-43E maintenance. The immediate supervision of this group comes from the 24 members of the Tactical Radar Maintenance Supervisors. The two groups identified as Tactical Radar Trainer Repairmen and Tactical Radar Trainer Maintenance Supervisors spend a great amount of time maintaining older GPS-T2/T4 radar trainers, in addition to TPS-43E maintenance.

VII. TACTICAL RADAR CREW MEMBERS (GRP292). This independent job type of 12 members is responsible for site erection and teardown of the mobile TPS-43E radar. They spend a relatively large amount of time (27 percent) performing tasks pertaining to radar installation and removal functions. Tasks performed by a majority of these incumbents include:

perform general housekeeping procedures
tear down mobile antennas
assemble or disassemble mobile radar equipment for mission deployments
perform corrosion control
erect mobile antennas
anchor radar equipment
remove or replace cables
repair, fold, and pack camouflage netting
Seventy-six percent of these personnel are in CONUS, and 76 percent are assigned to TAC. The group has an average paygrade of E-4 and an average of 55 months in service. Job satisfaction indicators show this group to be fairly well satisfied. Talents and training are perceived as being at least fairly well utilized by 86 and 84 percent of the group, respectively. Seventy-two percent report they find their job interesting.

There are six jobs identified in this cluster, and discriminating factors are the average number of tasks performed, supervisory tasks performed, and type of radar or radar equipment maintained. Fixed Search Radar Repairmen are responsible for maintenance of several search radar systems. They are most like the parent cluster in average number of tasks and time spent across duties. Fixed Search Radar Maintenance Supervisors are first-line supervisors responsible for supervision of the previous job type. They spend 22 percent of their job time in supervision, have an average grade of E-5, and perform an average of 259 tasks. Height Finder Radar Maintenance Repairmen are assigned to height finder workcenters and maintain the FPS-116 radar and OA-929 radar indicator. Height Finder Radar Maintenance Supervisors parallel the previous job in respect to maintenance tasks performed; however, they spend 29 percent of their job time in a supervisory role. AN/FP9-91 Radar Repairmen spend somewhat more time on maintenance of SIF equipment. The AN/FP9-91 Radar Transmitter Specialist job incumbents spend 44 percent of their job time on the FPS-91 transmitter system, with the rest of their job somewhat limited to general and preventive maintenance.

VI. TACTICAL RADAR MAINTENANCE PERSONNEL (GRP142). This cluster has maintenance responsibility over the AN/TPS-43E mobile radar set, an air-transportable three-dimensional radar, which provides the AC&W function within the Tactical Air Control System (TACS). This is the largest major job identified—161 incumbents performing an average of 230 tasks (JDI=17.6). These incumbents spend 12 percent of their job time performing tasks related to mobile capability of their equipment. Also differentiating this cluster from the previous fixed radar maintenance cluster are tasks relating to the advanced digital technology found in their equipment. Ninety-six percent of these incumbents report maintaining the TPS-43E. The same percentage, or more, maintain the UPX-23 interrogator/responder, the UPA-59/59A decoder, and a variety of solid-state ancillary equipment. Also maintained by a smaller percentage are both solid-state and older type radar trainers. Tasks commonly identifiable with this cluster include:
largest amount of their job time (30 percent) is that of general and preventive maintenance. Maintenance of indicators and video mappers consumes the next largest amount of their job time (16 percent). Examples of tasks performed by these incumbents include:

- perform corrosion control
- make entries on AFTO Forms 349
- perform general housekeeping procedures
- remove or replace discrete electronic components
- perform power supply operational checks
- perform PFI operational checks
- adjust range mark circuits
- adjust sweep generating circuits
- adjust CRT protection circuits
- perform radar transmitter operational checks

Eighty-seven percent of these personnel are located in the CONUS and 67 percent are assigned to TAC. These personnel appear relatively satisfied with their job, with 75 percent perceiving their job as interesting and only 16 percent indicating dissatisfaction with their sense of job accomplishment.

The five job types identified in this cluster spend 23 to 35 percent of their job time on general and preventive maintenance tasks. Differentiating tasks among these jobs related to assigned or supported mission or workcenter. Electronic Combat Range Radar Repairmen are most like the cluster in regard to time spent across all duties. They maintain the MPS-11 radar system in support of the electronic combat range mission. Weapons Range Radar Repairmen are differentiated from the other jobs in the cluster by the time they spend on transmitters. Like the previous group, they also maintain the MPS-11. Ancillary Workcenter Repairmen do not report maintaining any type of radar but, instead, maintain such equipment as UPA-35 radar indicators, GPA-30 video mappers, and the GPS-T4 radar trainer. SIF Repairmen likewise do not maintain radars systems but, maintain coder-decoder systems and the XPX-14 interrogator/responder set. Radar Height Finder Operators maintain the OA-929 radar indicator. Differentiating tasks involve radar height indicators, radomes, and wave-guides.

V. FIXED RADAR MAINTENANCE PERSONNEL (GRP171). This is the second largest maintenance group identified (N=159). This is a journeyman group of radar maintainers performing the full range of maintenance on a variety of AC&W fixed type radars, such as the FPS-6A, FPS-90, FPS-91, or the FPS-116. Members of this cluster perform an average of 145 tasks and the job they perform has a job difficulty index of 15.1 (13.0 is average). A sampling of the tasks performed includes:

- remove or replace discrete electronic components
- isolate power supply malfunctions other than solid-state
- perform radar transmitter operational checks
prepare inspection reports
make entries on AF Forms 2420 (Quality Control Inspection Summary)
implement quality control programs
evaluate technical performance of personnel
conduct maintenance inspections
evaluate quality control procedures
perform corrosion control inspections
evaluate material deficiency reports (MDR)

Job satisfaction data reveal these incumbents are fairly satisfied with 79 percent indicating their jobs are interesting and their training at least fairly well utilized. Seventy-nine percent indicate their talents are being used at least fairly well.

III. AC&W PROGRAM MANAGERS (GRP161). The five members of this independent job type spend less than 2 percent of their job time on radar maintenance tasks. They are the most senior group identified in the survey sample (averaging over 18 years in service with an average paygrade of E-7); all hold a DAFSC of 30372. These personnel function as radar systems managers or radar technical advisors at group level or above. Like the previous group, they spend most of their job time in evaluation, inspection, and administrative activities. Tasks indicative of their job include:

compile information for reports or staff studies
evaluate material deficiency reports (MDR)
conduct staff assistance visits
evaluate technical literature deficiency reports
prepare modification proposals
review drafts of regulations, manuals, or other directives
evaluate technical order improvement reports
evaluate data on development or modification of equipment

Although 80 percent of this group indicated their job was interesting, 100 percent reported they were less than satisfied with the sense of accomplishment gained from their job. A majority of this group (60 percent) also perceived that their talents and training were used less than fairly well.

IV. JUNIOR AC&W RADAR MAINTENANCE PERSONNEL (GRP083). All 67 of the personnel in this cluster hold a DAFSC 30332 or 30352, and 91 percent are in their first enlistment. They spend 78 percent of their time on radar maintenance tasks but, due to their limited experience (averaging only 25 months in the career field), they perform substantially fewer tasks (an average of 63) than either of the other two maintenance clusters. The duty taking up the
I. RADAR MAINTENANCE SUPERVISORS (GRP071). Seventy-one percent of these NCOs hold DAFSC 30372. The personnel in this cluster are the workcenter supervisors of the 303X2 career ladder and spend 82 percent of their job time performing administrative and supervisory tasks associated with their function. Seventy-nine percent of these incumbents supervise an average of four personnel; that is the greatest supervisory role of any of the major job groups identified. Tasks performed by high percentages of personnel in this cluster include:

determine work priorities
participate in meetings
write APRs
counsel personnel on personal or military-related problems
orient newly assigned personnel
perform self-inspections
establish work schedules
maintain training records, charts, or graphs

There were five fairly homogeneous job types in this cluster. The differentiating factors for these job types seem to be the average number of tasks performed and the amount of time spent performing various supervisory or maintenance duties. NCOICs, Fixed Radar Maintenance and NCOICs, Tactical Radar Maintenance are performing the same supervisory tasks; however, the latter job is differentiated by the time spent on maintenance duties. The tactical group spends 23 percent more time in maintenance activity, with 13 percent of that time spent on mobile site unique tasks (Duty Q). NCOICs, Ancillary Maintenance are differentiated by tasks relating to indicators, video mappers, and radar trainers. NCOICs, Job Control spend more time on planning, directing, and administrative tasks than any other group in this cluster. Instructor Supervisors are differentiated by the large percentage of time spent (40 percent) performing training tasks. (For more information about these groups, and those to follow, see Appendix A).

II. QUALITY CONTROL INSPECTORS (GRP275). The personnel making up this independent job type are responsible for the quality control and assurance programs associated with the various types of AC&W radars and related equipment. These incumbents are rather senior (averaging 202 months in service with an average paygrade of E-6), with an average of 185 months in the career field. These personnel spend very little time maintaining AC&W radars (6 percent) but instead spend most of their time performing evaluation and inspection duties (31 percent) and administrative duties (34 percent). Examples of tasks typically performed by these incumbents are:
Support Specialist, Controller, NCOIC/Quality Control, Workcenter Supervisor, Customer Liaison, and Unit Radar Repairman. These personnel did not group with any cluster or job type because of either the uniqueness of the job they perform or the manner in which they perceived their job.

**Overview**

Generally, the 303X2 career ladder is fairly diverse, with a wide variety of radar maintenance, maintenance support, administrative, and supervisory jobs being performed. The supervisory and administrative jobs are representative of those found in most maintenance career ladders, e.g., NCOICs, Program Managers, Quality Control Inspectors, Job Controllers, and Instructors. The key differentiating factor for the personnel in these jobs appears to be the amount of time spent performing supervisory, administrative, or training related tasks.

The maintenance and maintenance support jobs include four clusters and two independent job types. The differentiating factors among these jobs appear to involve the type of radars (fixed or tactical) or radar equipment maintained, or the average number of tasks performed.

Brief descriptions of each cluster and independent job type are presented below. Three tables at the end of this section provide additional information about the clusters and independent job types. Table 5 provides the relative time spent on each duty by the personnel in each of the major groups identified. For example, Junior AC&W Radar Personnel spend 16 percent of their job time maintaining indicators or video mappers, while the Tactical Radar Crew Members spend 27 percent of their job time installing, testing, and operating radar and auxiliary equipment for site or mobility. Table 6 provides selected background information, such as DAFSC, MAJCOM, and average months in service (TAFMS) for the major job groups. For example, 48 percent of the Junior AC&W Radar Personnel hold the 3-skill level, 66 percent are assigned to TAC, and they average 29 months in the service. Table 7 provides job satisfaction data for the major job groups, and may help indicate where potential morale problems might exist. For example, the Job Controllers appear to be very dissatisfied, with only 33 percent finding their job interesting, and only 17 percent feeling their training is being utilized at least fairly well.

Also included in this report is an appendix concerning the AC&W Radar specialty jobs. Appendix A provides various duty and background information for all the jobs identified in the career ladder structure analysis, including the jobs within each cluster. This appendix also lists common tasks performed by members of each of the jobs identified.
II. QUALITY CONTROL INSPECTORS (GRP275, N=33)

III. AC&W PROGRAM MANAGERS (GRP161, N=5)

IV. JUNIOR AC&W RADAR MAINTENANCE PERSONNEL (GRP083, N=67)
   A. Electronic Combat Range Radar Repairmen (GRP237, N=9)
   B. Weapons Range Radar Repairmen (GRP270, N=11)
   C. Ancillary Workcenter Repairmen (GRP228, N=9)
   D. Selective Identification Feature (SIF) Repairmen (GRP314, N=6)
   E. Radar Height Finder Operators (GRP260, N=7)

V. FIXED RADAR MAINTENANCE PERSONNEL (GRP171, N=159)
   A. Fixed Search Radar Repairmen (GRP316, N=62)
   B. Fixed Search Radar Maintenance Supervisors (GRP375, N=16)
   C. Height Finder Radar Maintenance Repairmen (GRP300, N=38)
   D. Height Finder Radar Maintenance Supervisors (GRP330, N=7)
   E. AN/FPS-91 Radar Repairmen (GRP297, N=14)
   F. AN/FPS-91 Radar Transmitter Specialists (GRP459, N=6)

VI. TACTICAL RADAR MAINTENANCE PERSONNEL (GRP142, N=161)
   A. Tactical Radar Repairmen (GRP327, N=99)
   B. Tactical Radar Maintenance Supervisors (GRP355, N=24)
   C. Tactical Radar Trainer Maintenance Supervisors (GRP371, N=8)
   D. Tactical Radar Trainer Repairmen (GRP321, N=6)

VII. TACTICAL RADAR CREW MEMBERS (GRP293, N=12)

VIII. ENGINEERING INSTALLATION TEAM MEMBERS (GRP195, N=6)

IX. RADAR EVALUATION PERSONNEL (GRP014, N=26)
   A. Electronic Systems Analysts (GRP175, N=5)
   B. Radar Evaluation Specialists (GRP391, N=5)

X. JOB CONTROLLERS (GRP214, N=6)

XI. INSTRUCTOR PERSONNEL (GRP040, N=33)
   A. AC&W Radar Repair Instructors (GRP259, N=12)
   B. Electronic Principles Instructors (GRP202, N=6)
   C. Support Instructor Personnel (GRP251, N=8)

DAFSC respondents forming these job types and clusters account for 79 percent of the survey sample. The remaining 21 percent did not group with any of the clusters or job types listed above. Some of the job titles held by those not grouped were: Communications Engineering Technician, Unit Logistics
FIGURE 1
303X2 CAREER LADDER STRUCTURE

TOTAL SAMPLE (N=764)

- GRP 040: INSTRUCTOR PERSONNEL (N=33)
- GRP 214: JOB CONTROLLERS (N=6)
- GRP 014: RADAR EVALUATION PERSONNEL (N=26)
  - GRP 195: ENGINEERING INSTALLATION TEAM MEMBERS (N=6)
  - GRP 293: TACTICAL RADAR CREW MEMBERS (N=12)
- GRP 142: TACTICAL RADAR MAINTENANCE PERSONNEL (N=161)
- GRP 171: FIXED RADAR MAINTENANCE PERSONNEL (N=159)
- GRP 083: JUNIOR AC&W RADAR PERSONNEL (N=67)
- GRP 161: PROGRAM MANAGERS (N=5)
- GRP 275: QUALITY CONTROL INSPECTORS (N=33)
- GRP 071: RADAR MAINTENANCE SUPERVISORS (N=96)
The structure of jobs within the Aircraft Control and Warning (AC&W) Radar career ladder was examined on the basis of similarity of tasks performed and the percent of time spent ratings provided by job incumbents, independent of specialty or other background factors.

For the purpose of organizing individual jobs into similar units of work, an automated job clustering program is used. This hierarchical grouping program is a basic part of the Comprehensive Occupational Data Analysis Program (CODAP) system for job analysis. Each individual job description in the sample is compared to every other job description in terms of tasks performed and the relative amount of time spent on each task in the job inventory. The automated system is designed to locate the two job descriptions with the most similar tasks and percent time ratings and combine them to form a composite job description. In successive stages, new members are added to initial groups or new groups are formed based on the similarity of tasks and percent of time ratings in each individual job description. This procedure is continued until all individuals and groups are combined to form a single composite representing the total sample. The resulting analysis of the variety of groups of jobs serves to identify: (1) the number of characteristics of the different jobs which exist within the career ladders; (2) the tasks which tend to be performed together by the same respondents; and (3) the breadth or narrowness of the jobs which exist within the Aircraft Control and Warning Radar career ladder.

The basic identifying group used in the hierarchical job structuring process is the Job Type. A job type is a group of individuals who perform many of the same tasks and spend similar amounts of time performing them. When there is a substantial degree of similarity between different job types, they are grouped together and labeled as Clusters. In many career ladders, there are specialized job types that are too dissimilar to be grouped into any cluster. These unique groups are labeled Independent Job Types.

Based on the similarity of tasks performed and the amount of time spent performing each task, six clusters and five independent job types were identified in the examination of the AC&W radar career ladder. These major jobs are illustrated in Figure 1 and are described on the following pages. The group (GRP) number shown beside each title is a reference to computer-printed information and the letter N refers to the number of personnel in the group:

I. RADAR MAINTENANCE SUPERVISORS (GRP071, N=96)

A. NCOICs, Fixed Radar Maintenance (GRP190, N=28)
B. NCOICs, Tactical Radar Maintenance (GRP218, N=18)
C. NCOICs, Ancillary Maintenance (GRP201, N=6)
D. NCOICs, Job Control (GRP229, N=7)
E. Instructor Supervisors (GRP231, N=5)
**TABLE 4**

**TASK FACTOR RATER MAJCOM DISTRIBUTION**

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<td>H MAINTAINING RADAR TRANSMITTER SYSTEMS</td>
<td>10</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>I MAINTAINING ANTENNA SYSTEMS</td>
<td>5</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>J MAINTAINING WAVE-GUIDE SYSTEMS</td>
<td>3</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>K MAINTAINING RADAR RECEIVERS AND TIMING SYSTEMS</td>
<td>11</td>
<td>3</td>
<td>2</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>L MAINTAINING INDICATORS OR VIDEO MAPPERS</td>
<td>8</td>
<td>1</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>M MAINTAINING ANTIJAM SYSTEMS</td>
<td>*</td>
<td>0</td>
<td>*</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>N MAINTAINING SELECTIVE IDENTIFICATION FEATURES (SAP)</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>O MAINTAINING RADOMES</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>0</td>
<td>*</td>
</tr>
<tr>
<td>P MAINTAINING RADAR TRAINERS</td>
<td>*</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>*</td>
</tr>
<tr>
<td>Q INSTALLING, TESTING, AND OPERATING RADAR AND AUXILIARY EQUIPMENT FOR SITE OR MOBILITY</td>
<td>27</td>
<td>17</td>
<td>5</td>
<td>3</td>
<td>*</td>
</tr>
<tr>
<td>R PERFORMING RADAR EVALUATION FUNCTIONS</td>
<td>*</td>
<td>1</td>
<td>23</td>
<td>0</td>
<td>*</td>
</tr>
</tbody>
</table>

* Denotes less than .5 percent
### TABLE 6

**SELECTED BACKGROUND DATA FOR CAREER LADDER CLUSTERS AND INDEPENDENT JOB TYPES**

<table>
<thead>
<tr>
<th></th>
<th>RADAR MAINT SUPV</th>
<th>QUALITY CONTROL INSP</th>
<th>PROGRAM MGRS</th>
<th>JUNIOR AC&amp;W PERS</th>
<th>FIXED RADAR MAINT PERS</th>
<th>TACTICAL RADAR MAINT PERS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NUMBER IN GROUP</strong></td>
<td>96</td>
<td>33</td>
<td>5</td>
<td>67</td>
<td>159</td>
<td>161</td>
</tr>
<tr>
<td><strong>PERCENT OF TOTAL SAMPLE</strong></td>
<td>13%</td>
<td>4%</td>
<td>1%</td>
<td>9%</td>
<td>21%</td>
<td>21%</td>
</tr>
<tr>
<td><strong>PERCENT IN CONUS</strong></td>
<td>67%</td>
<td>58%</td>
<td>40%</td>
<td>87%</td>
<td>76%</td>
<td>60%</td>
</tr>
</tbody>
</table>

**DAFSC DISTRIBUTION (PERCENT)**

<table>
<thead>
<tr>
<th></th>
<th>30332</th>
<th>30352</th>
<th>30372</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>27</td>
<td>71</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>12</td>
<td>88</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>48</td>
<td>52</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>25</td>
<td>66</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>22</td>
<td>66</td>
<td>12</td>
</tr>
</tbody>
</table>

**AVERAGE GRADE**

<table>
<thead>
<tr>
<th></th>
<th>E-6</th>
<th>E-6</th>
<th>E-7</th>
<th>E-3</th>
<th>E-4</th>
<th>E-4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>157</td>
<td>185</td>
<td>175</td>
<td>25</td>
<td>46</td>
<td>56</td>
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<td></td>
<td>170</td>
<td>202</td>
<td>216</td>
<td>28</td>
<td>55</td>
<td>64</td>
</tr>
</tbody>
</table>

**AVERAGE MONTHS IN CAREER FIELD**

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7%</td>
<td>3%</td>
<td>-</td>
<td>91%</td>
<td>70%</td>
<td>65%</td>
</tr>
<tr>
<td></td>
<td>79%</td>
<td>51%</td>
<td>-</td>
<td>10%</td>
<td>34%</td>
<td>35%</td>
</tr>
<tr>
<td></td>
<td>146</td>
<td>109</td>
<td>44</td>
<td>63</td>
<td>145</td>
<td>230</td>
</tr>
</tbody>
</table>

**PERCENT IN FIRST ENLISTMENT**

**PERCENT SUPERVISING**

**AVERAGE NUMBER OF TASKS PERFORMED**

**JOB DIFFICULTY INDEX (JDI)**

(AVERAGE JDI = 13.00)

|       | 13.9 | 13.5 | 10.9 | 9.0  | 15.1 | 17.6 |

**MAJOR COMMAND:**

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>TAC</td>
<td>52%</td>
<td>64%</td>
<td>40%</td>
<td>66%</td>
<td>76%</td>
<td>54%</td>
</tr>
<tr>
<td>AFCC</td>
<td>17%</td>
<td>-</td>
<td>20%</td>
<td>27%</td>
<td>16%</td>
<td>7%</td>
</tr>
<tr>
<td>USAFE</td>
<td>15%</td>
<td>27%</td>
<td>40%</td>
<td>-</td>
<td>-</td>
<td>33%</td>
</tr>
<tr>
<td>PACAF</td>
<td>7%</td>
<td>9%</td>
<td>-</td>
<td>7%</td>
<td>5%</td>
<td>5%</td>
</tr>
<tr>
<td>OTHER</td>
<td>9%</td>
<td>-</td>
<td>-</td>
<td>3%</td>
<td>1%</td>
<td></td>
</tr>
</tbody>
</table>
TABLE 6 (CONTINUED)

SELECTED BACKGROUND DATA FOR CAREER LADDER CLUSTERS AND INDEPENDENT JOB TYPES

<table>
<thead>
<tr>
<th></th>
<th>TACTICAL</th>
<th>ENGRG INSTL TEAM</th>
<th>RADAR EVAL PERS</th>
<th>JOB CONTROLLERS</th>
<th>INSTR PERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUMBER IN GROUP</td>
<td>12</td>
<td>6</td>
<td>26</td>
<td>6</td>
<td>33</td>
</tr>
<tr>
<td>PERCENT OF TOTAL SAMPLE</td>
<td>2%</td>
<td>1%</td>
<td>3%</td>
<td>1%</td>
<td>4%</td>
</tr>
<tr>
<td>PERCENT IN CONUS</td>
<td>75%</td>
<td>100%</td>
<td>89%</td>
<td>83%</td>
<td>100%</td>
</tr>
</tbody>
</table>

DAFSC DISTRIBUTION (PERCENT)

<table>
<thead>
<tr>
<th></th>
<th>30332</th>
<th>30352</th>
<th>30372</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>75</td>
<td>25</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>83</td>
<td>62</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

AVERAGE GRADE

<table>
<thead>
<tr>
<th>AVERAGE MONTHS IN CAREER FIELD</th>
<th>E-3</th>
<th>E-3</th>
<th>E-6</th>
<th>E-4</th>
<th>E-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVERAGE MONTHS IN SERVICE</td>
<td>17</td>
<td>21</td>
<td>151</td>
<td>62</td>
<td>96</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>29</td>
<td>172</td>
<td>94</td>
<td>102</td>
</tr>
</tbody>
</table>

PERCENT IN FIRST ENLISTMENT

<table>
<thead>
<tr>
<th>PERCENT SUPERVISING</th>
<th>100%</th>
<th>83%</th>
<th>8%</th>
<th>17%</th>
<th>24%</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVERAGE NUMBER OF TASKS PERFORMED</td>
<td>-</td>
<td>-</td>
<td>12%</td>
<td>17%</td>
<td>3%</td>
</tr>
</tbody>
</table>

JOB DIFFICULTY INDEX (JDI)

| (AVERAGE JDI = 13.00) | 11.0 | 11.0 | 11.6 | 5.1  | 10.4 |

MAJOR COMMAND:

<p>| TAC | 75% | -    | 15%  | 66%  | 3%  |
| AFCC| -   | 100% | 62%  | 17%  | 3%  |
| USAFE| 25  | -    | 8%   | 17%  | -   |
| PACAF| -   | -    | -    | -    | -   |
| OTHER| -   | -    | 15%  | -    | 94% |</p>
<table>
<thead>
<tr>
<th>HOW DO YOU FIND YOUR JOB:</th>
<th>RADAR MAINT SUPV (N=96)</th>
<th>QUALITY CONTROL INSPELL (N=33)</th>
<th>PROGRAM MANAGERS (N=5)</th>
<th>JUNIOR AC&amp;W PERS (N=67)</th>
<th>FIXED RADAR MAINT PERS (N=159)</th>
<th>TACTICAL RADAR MAINT PERS (N=161)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DULL</td>
<td>4</td>
<td>6</td>
<td>20</td>
<td>7</td>
<td>12</td>
<td>4</td>
</tr>
<tr>
<td>SO-SO</td>
<td>17</td>
<td>15</td>
<td>0</td>
<td>18</td>
<td>16</td>
<td>10</td>
</tr>
<tr>
<td>INTERESTING</td>
<td>78</td>
<td>79</td>
<td>80</td>
<td>75</td>
<td>72</td>
<td>85</td>
</tr>
</tbody>
</table>

| HOW WELL DOES YOUR JOB UTILIZE YOUR TALENTS: | | | | | | |
| VERY LITTLE OR NOT AT ALL | 16 | 9 | 60 | 22 | 14 | 12 |
| FAIRLY WELL TO PERFECTLY  | 84 | 91 | 40 | 78 | 86 | 88 |

| HOW WELL DOES YOUR JOB UTILIZE YOUR TRAINING: | | | | | | |
| VERY LITTLE OR NOT AT ALL | 24 | 21 | 60 | 25 | 16 | 8 |
| FAIRLY WELL TO PERFECTLY  | 76 | 79 | 40 | 75 | 84 | 92 |

| HOW SATISFIED ARE YOU WITH THE SENSE OF ACCOMPLISHMENT GAINED FROM YOUR JOB: | | | | | | |
| DISSATISFIED | 21 | 24 | 60 | 16 | 14 | 14 |
| UNDECIDED    | 8  | 3  | 40 | 18 | 9  | 9  |
| SATISFIED   | 71 | 73 | 0  | 66 | 77 | 76 |

| DO YOU PLAN TO REENLIST: | | | | | | |
| NO, WILL PROBABLY RETIRE | 19 | 24 | 80 | 0  | 2  | |
| NO, OR PROBABLY NO      | 17 | 12 | 20 | 51 | 44 | 35 |
| YES, OR PROBABLY YES    | 64 | 64 | 0  | 49 | 54 | 63 |

* Columns may not add to 100 percent due to "no response" or rounding
TABLE 7 (CONTINUED)

JOB SATISFACTION INFORMATION FOR CAREER LADDER CLUSTERS AND INDEPENDENT JOB TYPES
(PERCENT MEMBERS RESPONDING)

<table>
<thead>
<tr>
<th>How Do You Find Your Job:</th>
<th>TACTICAL RADAR CREW MEMBERS (N=12)</th>
<th>ENGRG INSTL TEAM MEMBERS (N=6)</th>
<th>RADAR EVAL PERS (N=26)</th>
<th>JOB CONTROLLERS (N=6)</th>
<th>INSTR PERS (N=33)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dull</td>
<td>8</td>
<td>0</td>
<td>23</td>
<td>17</td>
<td>0</td>
</tr>
<tr>
<td>So-so</td>
<td>8</td>
<td>0</td>
<td>23</td>
<td>33</td>
<td>9</td>
</tr>
<tr>
<td>Interesting</td>
<td>83</td>
<td>100</td>
<td>54</td>
<td>33</td>
<td>91</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>How Well Does Your Job Utilize Your Talents:</th>
<th>TACTICAL RADAR CREW MEMBERS (N=12)</th>
<th>ENGRG INSTL TEAM MEMBERS (N=6)</th>
<th>RADAR EVAL PERS (N=26)</th>
<th>JOB CONTROLLERS (N=6)</th>
<th>INSTR PERS (N=33)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very little or not at all</td>
<td>25</td>
<td>62</td>
<td>38</td>
<td>33</td>
<td>6</td>
</tr>
<tr>
<td>Fairly well to perfectly</td>
<td>75</td>
<td>33</td>
<td>62</td>
<td>50</td>
<td>94</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>How Well Does Your Job Utilize Your Training:</th>
<th>TACTICAL RADAR CREW MEMBERS (N=12)</th>
<th>ENGRG INSTL TEAM MEMBERS (N=6)</th>
<th>RADAR EVAL PERS (N=26)</th>
<th>JOB CONTROLLERS (N=6)</th>
<th>INSTR PERS (N=33)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very little or not at all</td>
<td>17</td>
<td>83</td>
<td>38</td>
<td>67</td>
<td>18</td>
</tr>
<tr>
<td>Fairly well to perfectly</td>
<td>83</td>
<td>17</td>
<td>62</td>
<td>17</td>
<td>82</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>How Satisfied Are You With The Sense of Accomplishment Gained From Your Job:</th>
<th>TACTICAL RADAR CREW MEMBERS (N=12)</th>
<th>ENGRG INSTL TEAM MEMBERS (N=6)</th>
<th>RADAR EVAL PERS (N=26)</th>
<th>JOB CONTROLLERS (N=6)</th>
<th>INSTR PERS (N=33)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dissatisfied</td>
<td>17</td>
<td>-</td>
<td>31</td>
<td>33</td>
<td>6</td>
</tr>
<tr>
<td>Undecided</td>
<td>8</td>
<td>33</td>
<td>11</td>
<td>0</td>
<td>9</td>
</tr>
<tr>
<td>Satisfied</td>
<td>75</td>
<td>67</td>
<td>58</td>
<td>50</td>
<td>85</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Do You Plan To Reenlist:</th>
<th>TACTICAL RADAR CREW MEMBERS (N=12)</th>
<th>ENGRG INSTL TEAM MEMBERS (N=6)</th>
<th>RADAR EVAL PERS (N=26)</th>
<th>JOB CONTROLLERS (N=6)</th>
<th>INSTR PERS (N=33)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No, Will Probably Retire</td>
<td>0</td>
<td>0</td>
<td>23</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>No, Or Probably No</td>
<td>50</td>
<td>67</td>
<td>23</td>
<td>33</td>
<td>33</td>
</tr>
<tr>
<td>Yes, Or Probably Yes</td>
<td>50</td>
<td>33</td>
<td>54</td>
<td>67</td>
<td>64</td>
</tr>
</tbody>
</table>

* Columns may not add to 100 percent due to "no response" or rounding
ANALYSIS OF DAFSC GROUPS

An analysis of DAFSC groups, in conjunction with the analysis of the career ladder structure, is an important part of each occupational analysis. The DAFSC analysis identifies differences in tasks performed at the various skill levels. This information can be used to evaluate how well career ladder documents, such as AFR 39-1, Specialty Descriptions, and the Specialty Training Standards (STS), reflect what career ladder personnel are actually doing in the field.

A comparison of duty and task performance between 3-skill level (30332) personnel and 5-skill level (30352) personnel indicates the jobs they perform are essentially the same. Therefore, they are discussed as one group (30332/30352) in the skill level analysis that follows. The analysis will discuss tasks common to each of the DAFSC groups, as well as the tasks which best differentiate the 3-, 5-, and 7-skill level incumbents.

Skill Level Comparisons

As in most career ladders, the job performed by the 3- and 5-skill level personnel is largely technical in nature. These personnel spend 71 percent of their job time performing technical duties, with the largest amount of time (17 percent) spent on performing general and preventive maintenance (see Table 8). This is realistic with the career ladder structure, since a majority (64 percent) of the 30332 and 30352 personnel fall into the three major radar maintenance clusters (see Table 9). Table 10 reflects those tasks performed by the highest percentages of 3- and 5-skill level personnel. Those tasks primarily involve routine radar maintenance, such as removing or replacing cables, electronic components, circuit boards, and cooling fluids; performing various system operational checks; and adjusting circuits.

The duties and tasks performed by 7-skill level personnel indicate that these incumbents are the first-line supervisors and workcenter chiefs of this career ladder. Table 8 reflects these incumbents spend 50 percent of their job time performing supervisory duties and another 20 percent performing administrative activities. An examination of the most common tasks performed by these personnel (see Table 11) reveals that over 45 percent are performing supervisory tasks such as preparing APRs, orienting and counseling personnel, maintain training records, inspecting personnel and equipment, and establishing work schedules.

When comparing the two skill level groups, data reveal 7-skill level incumbents spend substantially more time in supervisory duties and are represented much more in the supervisory and management job types. Table 12 lists the tasks which best differentiate the 3-/5-, and 7-skill level personnel. As expected, these differentiating tasks indicate that, although the 7-skill level personnel spend just over 21 percent of their job time on radar maintenance duties, they have a much greater management, supervisory, and administrative responsibility than the 3-, 5-skill level group.
AFR 39-1 Specialty Descriptions

The foregoing 3-, 5-, and 7-skill level survey data were compared to the AFR 39-1 Specialty Descriptions for the Aircraft Control and Warning Radar Specialist (AFSC 30312/30332/30352), and the Aircraft Control and Warning Radar Technician (AFSC 30372), dated 1 January 1982. These descriptions are intended to give a broad overview of the duties and tasks performed by each skill level of the career ladder. These descriptions appeared complete and accurately reflected the range of duties and responsibilities of the career ladder at the time of the occupational survey.
<table>
<thead>
<tr>
<th>DUTIES</th>
<th>30332/52 PERSONNEL (N=555)</th>
<th>30372 PERSONNEL (N=207)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A ORGANIZING AND PLANNING</td>
<td>4</td>
<td>11</td>
</tr>
<tr>
<td>B DIRECTING AND IMPLEMENTING</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>C EVALUATING AND INSPECTING</td>
<td>5</td>
<td>17</td>
</tr>
<tr>
<td>D TRAINING</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td>E PERFORMING ADMINISTRATIVE TASKS</td>
<td>10</td>
<td>20</td>
</tr>
<tr>
<td>F PERFORMING SUPPLY AND EQUIPMENT FUNCTIONS</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>G PERFORMING GENERAL AND PREVENTIVE MAINTENANCE</td>
<td>17</td>
<td>4</td>
</tr>
<tr>
<td>H MAINTAINING RADAR TRANSMITTER SYSTEMS</td>
<td>10</td>
<td>3</td>
</tr>
<tr>
<td>I MAINTAINING ANTENNA SYSTEMS</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>J MAINTAINING WAVE–GUIDE SYSTEMS</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>K MAINTAINING RADAR RECEIVERS AND TIMING SYSTEMS</td>
<td>10</td>
<td>3</td>
</tr>
<tr>
<td>L MAINTAINING INDICATORS OR VIDEO MAPPERS</td>
<td>8</td>
<td>2</td>
</tr>
<tr>
<td>M MAINTAINING ANTIJAM SYSTEMS</td>
<td>1</td>
<td>*</td>
</tr>
<tr>
<td>N MAINTAINING SELECTIVE IDENTIFICATION FEATURES (SIF)</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>O MAINTAINING RADOMES</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>P MAINTAINING RADAR TRAINERS</td>
<td>1</td>
<td>*</td>
</tr>
<tr>
<td>Q INSTALLING, TESTING, AND OPERATING RADAR AND AUXILIARY EQUIPMENT FOR SITE OR MOBILITY</td>
<td>7</td>
<td>4</td>
</tr>
<tr>
<td>R PERFORMING RADAR EVALUATION FUNCTIONS</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

* Denotes less than 1 percent
TABLE 9

DISTRIBUTION OF DAFSC GROUP MEMBERS ACROSS CAREER LADDER CLUSTERS AND INDEPENDENT JOB TYPES
(PERCENT MEMBERS RESPONDING)

<table>
<thead>
<tr>
<th>JOB GROUP</th>
<th>DAFSC 30332/52 (N=555)</th>
<th>DAFSC 30372 (N=207)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. RADAR MAINTENANCE SUPERVISORS (N=96)</td>
<td>5</td>
<td>33</td>
</tr>
<tr>
<td>II. QUALITY CONTROL INSPECTORS (N=33)</td>
<td>*</td>
<td>14</td>
</tr>
<tr>
<td>III. PROGRAM MANAGERS (N=5)</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>IV. JUNIOR AC&amp;W RADAR PERSONNEL (N=67)</td>
<td>12</td>
<td>0</td>
</tr>
<tr>
<td>V. FIXED RADAR MAINTENANCE PERSONNEL (N=159)</td>
<td>26</td>
<td>7</td>
</tr>
<tr>
<td>VI. TACTICAL RADAR MAINTENANCE PERSONNEL (N=161)</td>
<td>26</td>
<td>9</td>
</tr>
<tr>
<td>VII. TACTICAL RADAR CREW MEMBERS (N=12)</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>VIII. ENGINEERING INSTALLATION TEAM MEMBERS  (N=6)</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>IX. RADAR EVALUATION PERSONNEL (N=26)</td>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>X. JOB CONTROLLERS (N=6)</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>XI. INSTRUCTOR PERSONNEL (N=33)</td>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td>PERCENT NOT GROUPED</td>
<td>22</td>
<td>17</td>
</tr>
<tr>
<td>TOTAL</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

* Denotes less than 1 percent
| TABLE 10 |
|---------------------------------|-----------------|
| REPRESENTATIVE TASKS PERFORMED | PERCENT PERFORMING |
| BY DAFSC 30332/52 PERSONNEL    |                  |
| (N=555)                         |                  |

<table>
<thead>
<tr>
<th>TASKS</th>
<th>PERCENT PERFORMING</th>
</tr>
</thead>
<tbody>
<tr>
<td>G361 PERFORM GENERAL HOUSEKEEPING PROCEDURES</td>
<td>76</td>
</tr>
<tr>
<td>G359 PERFORM CORROSION CONTROL</td>
<td>72</td>
</tr>
<tr>
<td>G372 REMOVE OR REPLACE CABLES</td>
<td>71</td>
</tr>
<tr>
<td>G362 PERFORM GENERAL SOLDERING, OTHER THAN PRINTED CIRCUIT BOARDS</td>
<td>71</td>
</tr>
<tr>
<td>G374 REMOVE OR REPLACE DISCRETE ELECTRONIC COMPONENTS, SUCH AS</td>
<td>70</td>
</tr>
<tr>
<td>TUBES, RESISTORS, CAPACITORS, OR RELAYS</td>
<td></td>
</tr>
<tr>
<td>E235 MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION</td>
<td>69</td>
</tr>
<tr>
<td>RECORD)</td>
<td></td>
</tr>
<tr>
<td>E236 MAKE ENTRIES ON AFTO FORMS 350 (REPAIRABLE ITEM PROCESSING TAGS)</td>
<td>66</td>
</tr>
<tr>
<td>G368 PERFORM POWER SUPPLY OPERATIONAL CHECKS</td>
<td>66</td>
</tr>
<tr>
<td>G349 FABRICATE COAXIAL CABLES</td>
<td>65</td>
</tr>
<tr>
<td>G371 READ AND INTERPRET EQUIPMENT TECHNICAL MANUALS</td>
<td>65</td>
</tr>
<tr>
<td>H410 PERFORM RADAR TRANSMITTER OPERATIONAL CHECKS</td>
<td>62</td>
</tr>
<tr>
<td>F283 COMPLETE AF FORMS 2005 (ISSUE/TURN IN REQUEST)</td>
<td>60</td>
</tr>
<tr>
<td>G373 REMOVE OR REPLACE CIRCUIT BOARDS OR CARDS</td>
<td>59</td>
</tr>
<tr>
<td>I439 LUBRICATE ANTENNA SYSTEM COMPONENTS</td>
<td>58</td>
</tr>
<tr>
<td>G360 PERFORM FACILITIES MAINTENANCE, SUCH AS PAINTING BUILDINGS</td>
<td>57</td>
</tr>
<tr>
<td>L557 ADJUST RANGE MARK CIRCUITS</td>
<td>56</td>
</tr>
<tr>
<td>G381 TORQUE MISCELLANEOUS HARDWARE, SUCH AS SCREWS OR BOLTS</td>
<td>55</td>
</tr>
<tr>
<td>H409 PERFORM RADAR TRANSMITTER INSULATING OIL CHECKS</td>
<td>55</td>
</tr>
<tr>
<td>G343 ADJUST POWER SUPPLIES OTHER THAN SOLID-STATE POWER SUPPLIES</td>
<td>55</td>
</tr>
<tr>
<td>G379 TERMINATE CABLES</td>
<td>53</td>
</tr>
<tr>
<td>G377 REMOVE OR REPLACE SOLID-STATE DEVICES</td>
<td>52</td>
</tr>
<tr>
<td>L575 PERFORM PLAN POSITION INDICATOR (PPI) Operational Checks</td>
<td>51</td>
</tr>
<tr>
<td>L559 ADJUST SWEEP GENERATING CIRCUITS</td>
<td>51</td>
</tr>
<tr>
<td>L552 ADJUST CURSOR CIRCUITS</td>
<td>50</td>
</tr>
<tr>
<td>L550 ADJUST CATHODERAY TUBE (CRT) DEFLECTION CIRCUITS</td>
<td>50</td>
</tr>
<tr>
<td>H418 REMOVE OR REPLACE TRANSMITTER COOLING SYSTEM FLUIDS</td>
<td>50</td>
</tr>
<tr>
<td>G380 TEST INTERLOCK CIRCUITS</td>
<td>50</td>
</tr>
<tr>
<td>G375 REMOVE OR REPLACE ELECTRONIC CHASSIS</td>
<td>50</td>
</tr>
<tr>
<td>E200 LOCATE INFORMATION IN TECHNICAL, STANDARD, OR SUPPLY PUBLICATIONS</td>
<td>49</td>
</tr>
<tr>
<td>G365 PERFORM INTERLOCK PROTECTIVE CIRCUIT OPERATIONAL CHECKS</td>
<td>48</td>
</tr>
</tbody>
</table>

30
<table>
<thead>
<tr>
<th>TASKS</th>
<th>PERCENT PERFORMING</th>
</tr>
</thead>
<tbody>
<tr>
<td>A27 PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS, CONFERENCES, OR WORKSHOPS</td>
<td>79</td>
</tr>
<tr>
<td>B84 WRITE CORRESPONDENCE OR MESSAGES</td>
<td>68</td>
</tr>
<tr>
<td>E200 LOCATE INFORMATION IN TECHNICAL, STANDARD, OR SUPPLY PUBLICATIONS</td>
<td>64</td>
</tr>
<tr>
<td>C134 PERFORM SELF-INSPECTIONS</td>
<td>64</td>
</tr>
<tr>
<td>C120 INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS</td>
<td>60</td>
</tr>
<tr>
<td>C140 WRITE APR</td>
<td>59</td>
</tr>
<tr>
<td>A8 DETERMINE WORK PRIORITIES</td>
<td>57</td>
</tr>
<tr>
<td>B59 COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED PROBLEMS</td>
<td>57</td>
</tr>
<tr>
<td>B77 ORIENT NEWLY ASSIGNED PERSONNEL</td>
<td>55</td>
</tr>
<tr>
<td>D155 DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION</td>
<td>53</td>
</tr>
<tr>
<td>F312 MAKE ENTRIES ON AF FORMS 1297 (TEMPORARY ISSUE RECIPT)</td>
<td>52</td>
</tr>
<tr>
<td>D172 MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS</td>
<td>49</td>
</tr>
<tr>
<td>B73 INITIATE FOLLOW-UP ACTIONS ON WORK IN PROGRESS</td>
<td>49</td>
</tr>
<tr>
<td>C138 REVIEW MAINTENANCE DATA COLLECTION (MDC) FORMS</td>
<td>49</td>
</tr>
<tr>
<td>E267 REVIEW CORRESPONDENCE</td>
<td>48</td>
</tr>
<tr>
<td>C142 WRITE RECOMMENDATIONS FOR AWARDS OR DECORATIONS</td>
<td>48</td>
</tr>
<tr>
<td>C127 PERFORM EQUIPMENT INSPECTIONS</td>
<td>47</td>
</tr>
<tr>
<td>E225 MAKE ENTRIES ON AF FORMS 2419 (ROUTING AND REVIEW OF QUALITY CONTROL REPORTS)</td>
<td>47</td>
</tr>
<tr>
<td>B75 INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES</td>
<td>47</td>
</tr>
<tr>
<td>F330 RESEARCH MICROFICHE FILES FOR SUPPLY REQUISITION DATA</td>
<td>47</td>
</tr>
<tr>
<td>B80 SUPERVISE AC&amp;W RADAR SPECIALISTS (AFSC 30352)</td>
<td>46</td>
</tr>
<tr>
<td>A24 ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES</td>
<td>46</td>
</tr>
<tr>
<td>A42 SCHEDULE LEAVES OR PASSES</td>
<td>45</td>
</tr>
<tr>
<td>D154 COUNSEL TRAINEES ON TRAINING PROGRESS</td>
<td>45</td>
</tr>
<tr>
<td>A26 ESTABLISH WORK SCHEDULES</td>
<td>45</td>
</tr>
<tr>
<td>F332 REVIEW PRIORITY MONITOR REPORTS (D18/820-50)</td>
<td>45</td>
</tr>
<tr>
<td>A38 REVIEW DRAFTS OF REGULATIONS, MANUALS, OR OTHER DIRECTIVES</td>
<td>44</td>
</tr>
<tr>
<td>E271 REVIEW MAINTENANCE OR INSPECTION REPORTS</td>
<td>44</td>
</tr>
<tr>
<td>G371 READ AND INTERPRET EQUIPMENT TECHNICAL MANUALS</td>
<td>44</td>
</tr>
<tr>
<td>F335 REVIEW SUPPLY DAILY DOCUMENT REGISTERS (D04/804-11)</td>
<td>44</td>
</tr>
<tr>
<td>TASKS</td>
<td>30332/52 PERSONNEL (N=555)</td>
</tr>
<tr>
<td>-----------------------------------------------------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td>PERFORM CORROSION CONTROL</td>
<td>72</td>
</tr>
<tr>
<td>PERFORM GENERAL SOLDERING</td>
<td>71</td>
</tr>
<tr>
<td>REMOVE OR REPLACE DISCRETE ELECTRONIC CIRCUITS</td>
<td>70</td>
</tr>
<tr>
<td>PERFORM POWER SUPPLY OPERATIONAL CHECKS</td>
<td>66</td>
</tr>
<tr>
<td>LUBRICATE ANTENNA SYSTEM COMPONENTS</td>
<td>59</td>
</tr>
<tr>
<td>REMOVE OR REPLACE CIRCUIT BOARDS OR CORDS</td>
<td>59</td>
</tr>
<tr>
<td>PERFORM RADAR TRANSMITTER OPERATIONAL CHECKS</td>
<td>63</td>
</tr>
<tr>
<td>ADJUST SWEEP GENERATING CIRCUITS</td>
<td>51</td>
</tr>
<tr>
<td>PERFORM FACILITIES MAINTENANCE</td>
<td>57</td>
</tr>
<tr>
<td>PERFORM RADAR TRANSMITTER INSULATING OIL CHECKS</td>
<td>55</td>
</tr>
<tr>
<td>ADJUST TRANSMITTER POWER SUPPLIES</td>
<td>46</td>
</tr>
<tr>
<td>ADJUST VIDEO AMPLIFIER CIRCUITS</td>
<td>41</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TASKS</th>
<th>30332/52 PERSONNEL (N=555)</th>
<th>30372 PERSONNEL (N=207)</th>
<th>DIFFERENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANALYZE TRENDS IN SYSTEM MALFUNCTIONS</td>
<td>11</td>
<td>39</td>
<td>-28</td>
</tr>
<tr>
<td>REVIEW SUPPLY OR EQUIPMENT INVENTORIES</td>
<td>10</td>
<td>39</td>
<td>-29</td>
</tr>
<tr>
<td>EVALUATE TECHNICAL PERFORMANCE OF PERSONNEL</td>
<td>10</td>
<td>40</td>
<td>-30</td>
</tr>
<tr>
<td>SCHEDULE WORK ASSIGNMENTS AND PRIORITIES</td>
<td>10</td>
<td>42</td>
<td>-32</td>
</tr>
<tr>
<td>INITIATE FOLLOW-UP ACTIONS ON WORK IN PROGRESS</td>
<td>15</td>
<td>49</td>
<td>-34</td>
</tr>
<tr>
<td>ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES</td>
<td>11</td>
<td>46</td>
<td>-35</td>
</tr>
<tr>
<td>REVIEW MAINTENANCE OR INSPECTION REPORTS</td>
<td>9</td>
<td>45</td>
<td>-36</td>
</tr>
<tr>
<td>PERFORM SELF-INSPECTIONS</td>
<td>26</td>
<td>64</td>
<td>-38</td>
</tr>
<tr>
<td>WRITE APRs</td>
<td>20</td>
<td>59</td>
<td>-39</td>
</tr>
<tr>
<td>WRITE CORRESPONDENCE OR MESSAGES</td>
<td>14</td>
<td>68</td>
<td>-54</td>
</tr>
</tbody>
</table>
ANALYSIS OF EXPERIENCE GROUPS

In addition to the skill level analysis, survey respondents were examined on the basis of months of Total Active Federal Military Service (TAFMS). This analysis helps to determine how jobs and job perceptions change over time, and can help describe the types of jobs or duties more junior 303X2 personnel can look forward to performing in the future.

As expected, no major deviations from the usual pattern of increasing time spent on supervisory duties with increasing months TAFMS were noted (see Table 13). Generally, junior airmen spend more time performing technical radar maintenance functions, such as performing preventive maintenance or maintaining transmitter systems, while senior incumbents spend more time on directing and implementing or inspecting and evaluating duties.

Job Satisfaction Analysis

Job satisfaction indices for personnel in the first enlistment (1-48 months TAFMS), second enlistment (49-96 months TAFMS), and career (97+ months TAFMS) groups were also examined. Job interest, perceived utilization of talents or training, and reenlistment intentions are presented in Table 14, along with the comparative sample for personnel from all related career ladders analyzed in 1984. (The comparative sample included the 321X2, 322X2, 328X2/3/4, 404X1, 432X0/2/4, 427X5, and 461X0 career ladders.) When compared to the comparative sample, 303X2 first-enlistment personnel generally have about the same job satisfaction indicators (a somewhat higher percentage of 303X2 personnel feel their talents are being utilized at least fairly well). DAFSC 303X2 second-enlistment personnel are also somewhat like their comparative sample group, and very similar to the 303X2 first-enlistment personnel, except in the area of reenlistment plans. Sixty-seven percent of the 303X2 second-enlistment group plans to reenlist, which is much more favorable than the 303X2 first-enlistment group, but less than the 49-96 months TAFMS comparative sample. Finally, career 303X2 personnel (97+ months TAFMS) indicate a slightly to somewhat lower feeling of job satisfaction than their comparative sample in all indicators.

First-Enlistment Personnel

First-enlistment personnel were also examined both on the basis of common tasks performed and various background information. Table 15 lists those tasks performed by the greatest percentages of 303X2 first-enlistment personnel. Generally, these most common tasks involve some aspect of general or preventive maintenance, such as corrosion control, performing general soldering, fabricating coaxial cable, and performing operational checks and adjustments on a variety of devices or circuits.

Although the tasks listed in Table 15 are characteristic of most first-enlistment personnel, other functions performed by these incumbents vary somewhat, depending on the job they perform. Figure 2 presents the distribution of 303X2 first-enlistment personnel across job groups identified in the CAREER LADDER STRUCTURE section. As expected, almost 70 percent of first-enlistment personnel are identified in either the Fixed or Tactical Radar Maintenance
clusters or the Junior AC&W Radar Maintenance cluster. Tasks typically performed by first-enlistment personnel in the major job groups on Figure 2 include:

**Fixed Radar Maintenance Personnel (28%)**

- adjust crystal mixers
- remove or replace crystal mixer components
- adjust power supplies other than solid-state power supplies
- adjust angle mark circuits

**Tactical Radar Maintenance Personnel (26%)**

- adjust side lobe receiver circuits
- remove or replace digital receiver circuits components
- adjust defruiters
- erect mobile antennas

**Junior AC&W Radar Personnel (15%)**

- adjust range mark circuits
- perform corrosion control
- adjust range strobe circuits
- perform power supply operational checks

**Tactical Radar Crew Members (3%)**

- tear down mobile antennas
- assemble or disassemble mobile radar equipment for mission deployments
- adjust digital MTI antennas
- erect support facilities, such as transportable shelters

**Instructor Personnel (2%)**

- administer or score tests
- conduct technical school classroom training
- prepare lesson plans
- write test questions

**Radar Maintenance Supervisors (2%)**

- determine work priorities
- initiate follow-up action on work in progress
- orient newly assigned personnel
- participate in meetings, such as staff meetings, briefings, conferences or workshops

In addition to an analysis of tasks, various pieces of radar equipment maintained by first-enlistment personnel were examined. Table 16 reveals that the radar system most likely to be maintained by 303X2 first-enlistment personnel is the mobile, three-dimensional, solid-state radar, TPS-43E. Table 16 also reveals that a larger percentage of these personnel are assigned to maintaining the newer solid-state devices.
PACAF

This relatively small group (only 4 percent of the sample) is distinguished by several tasks its members perform. Incumbents spend 10 percent of their job time maintaining indicators of video mappers, performing tasks such as isolating range mark or sweep generating circuit malfunctions, and adjusting time-sharing circuits. The primary radars maintained by PACAF personnel are the TPS-43E and MPS-11.

AFCC

AFCC personnel make up 21 percent of the survey sample (161 respondents) and perform a job much smaller than the previously discussed commands, performing an average of only 80 tasks. AFCC personnel spend somewhat more time performing supervisory duties than personnel assigned to TAC, USAFE, or PACAF. Although they perform tasks from all maintenance duties, there is only one inventory task performed by more than 50 percent of these personnel; that is, "perform general housekeeping procedures". There are no tasks differentiating this group, however, a larger percent of these personnel are maintaining the older tube-type equipment. AFCC personnel are the least satisfied of the MAJCOM groups, with only 62 percent perceiving their training is being utilized at least fairly well, and only 47 percent planning to reenlist.

ATC

The 303X2 personnel assigned to ATC are primarily responsible for conducting the various aspects of AC&W radar resident classroom training at Keesler AFB MS. These personnel perform a relatively low number of tasks (41), a majority of which deal directly with resident training responsibility. Typical tasks performed by ATC incumbents include writing test questions, administering or scoring tests, preparing lesson plans, and conducting technical school classroom training. While not the most experienced in TAFMS, the ATC group has the least number of first-term personnel assigned (17 percent).
ANALYSIS OF MAJOR COMMAND DIFFERENCES

An analysis of the tasks and duties performed by MAJCOM groups can highlight important differences. In many specialties, the jobs performed by various groups of personnel differ little across MAJCOMs; however, there are some noticeable differences in the 303X2 career ladder. This analysis examined data relating to personnel assigned to TAC, USAFE, PACAF, AFCC, and ATC. These commands account for 98 percent of the survey respondents.

Given below are brief job descriptions concerning these users of 303X2 personnel. In addition, four tables at end of this section provide job and background information for the five commands mentioned above. Table 21 reveals the difference in relative time spent performing duties across commands, while Table 22 lists tasks that reflect both similarities and differences in percent members performing by MAJCOM groups. Various types of background information are listed in Tables 23 and 24, such as number of tasks performed, experience levels, and differences in equipment maintained.

TAC

These 401 incumbents constitute 52 percent of the survey sample. Of the three commands found in the CONUS, the TAC personnel have the largest job (an average of 130 tasks performed). This group spends 16 percent of its job time performing general and preventive maintenance, and 20 percent maintaining transmitter and receiver systems (4 to 18 percent more than the other commands). TAC has the largest percent of first-enlistment personnel (59 percent) and 77 percent of this group hold a 3- or 5-skill level DAFSC. No differentiating tasks are performed by TAC personnel—they perform a job very similar to that of USAFE and PACAF groups. Like those two commands, the mobile TPS-43E radar and related devices constitute the system most likely to be maintained by TAC personnel.

USAFE

The 107 personnel (14 percent of the sample) assigned to USAFE stand out due to the large amount of job time (15 percent) they spend performing radar site and mobility functions. These duties define an overseas mobile AC&W radar mission. Differentiating tasks include erecting or tearing down mobile antennas, erecting tents, installing or removing SIF antennas, establishing security at mission locations, and living under field conditions. Seventy percent of these personnel are maintaining the TPS-43E AC&W radar and have the largest job of all commands (an average of 173 tasks performed).
<table>
<thead>
<tr>
<th>Tasks</th>
<th>PERCENT MEMBERS PERFORMING</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FIRST JOB (N=240)</td>
</tr>
<tr>
<td>G363</td>
<td>PERFORM HIGH RELIABILITY SOLDERING ON PRINTED CIRCUIT BOARDS</td>
</tr>
<tr>
<td>H384</td>
<td>ADJUST MODULATOR PROTECTOR CIRCUITS</td>
</tr>
<tr>
<td>K492</td>
<td>ADJUST INTERMEDIATE FREQUENCY (IF) PREAMPLIFIERS</td>
</tr>
<tr>
<td>K422</td>
<td>REMOVE OR REPLACE TRANSMITTER POWER OUTPUT TUBES</td>
</tr>
<tr>
<td>H423</td>
<td>REMOVE OR REPLACE TRANSMITTER POWER SUPPLY COMPONENTS</td>
</tr>
<tr>
<td>I426</td>
<td>ADJUST ANTENNA CONTROL SYSTEMS</td>
</tr>
<tr>
<td>I438</td>
<td>LEVEL ANTENNA PEDESTALS</td>
</tr>
<tr>
<td>H425</td>
<td>REMOVE OR REPLACE TRANSMITTER PULSE TRANSFORMERS</td>
</tr>
<tr>
<td>K495</td>
<td>ADJUST RECEIVER RF AMPLIFIERS</td>
</tr>
<tr>
<td>L570</td>
<td>ISOLATE SWEEP GENERATING CIRCUIT MALFUNCTIONS</td>
</tr>
<tr>
<td>L568</td>
<td>ISOLATE RANGE MARK CIRCUIT MALFUNCTIONS</td>
</tr>
<tr>
<td>I429</td>
<td>ADJUST ANTENNA TILT</td>
</tr>
<tr>
<td>L566</td>
<td>ISOLATE CURSOR CIRCUIT MALFUNCTIONS</td>
</tr>
<tr>
<td>L565</td>
<td>ISOLATE CRT PROTECTION CIRCUIT MALFUNCTIONS</td>
</tr>
</tbody>
</table>

* Mean TE = 2.30, SD = 1.72  
** Mean TD = 5.00, SD = 1.00
### Table 19

**EXAMPLES OF TASKS NOT REFERENCED TO STS PERFORMED BY 303X2 PERSONNEL**

(OVER 20 PERCENT MEMBERS PERFORMING)

<table>
<thead>
<tr>
<th>TASKS</th>
<th>1ST ENL (N=395)</th>
<th>DAFSC 30372 (N=207)</th>
<th>TNG EMP*</th>
<th>TASK DIFF**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q782 TEAR DOWN MOBILE ANTENNAS</td>
<td>30</td>
<td>14</td>
<td>3.30</td>
<td>5.52</td>
</tr>
<tr>
<td>D300 INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES</td>
<td>40</td>
<td>34</td>
<td>3.01</td>
<td>2.79</td>
</tr>
<tr>
<td>F304 MAINTAIN BENCHSTOCK LEVELS</td>
<td>24</td>
<td>14</td>
<td>3.00</td>
<td>3.01</td>
</tr>
<tr>
<td>Q785 TEAR DOWN, INSPECT, CLEAN, AND REASSEMBLE M-16 RIFLES</td>
<td>27</td>
<td>21</td>
<td>2.51</td>
<td>4.00</td>
</tr>
<tr>
<td>Q766 PACK INDIVIDUAL MOBILITY EQUIPMENT FOR DEPLOYMENTS</td>
<td>22</td>
<td>14</td>
<td>2.31</td>
<td>4.51</td>
</tr>
<tr>
<td>F334 REVIEW STATUS OF AWAITING PARTS (AWP) EQUIPMENT</td>
<td>22</td>
<td>41</td>
<td>2.14</td>
<td>3.62</td>
</tr>
<tr>
<td>F335 REVIEW SUPPLY DAILY DOCUMENT REGISTERS (D04/804-11)</td>
<td>9</td>
<td>45</td>
<td>1.81</td>
<td>3.80</td>
</tr>
<tr>
<td>F332 REVIEW PRIORITY MONITOR REPORTS (D18/820-50)</td>
<td>5</td>
<td>45</td>
<td>1.59</td>
<td>4.01</td>
</tr>
</tbody>
</table>

* MEAN TE = 2.30, SD = 1.72  
** MEAN TD = 5.00, SD = 1.00
### TABLE 18

LOW PERFORMANCE OR UNREFERENCED 303X2 STS ELEMENTS
(EXCLUDING KNOWLEDGE ONLY ELEMENTS)

<table>
<thead>
<tr>
<th>STS ELEMENTS</th>
<th>PERCENT PERFORMING*</th>
</tr>
</thead>
<tbody>
<tr>
<td>14c REPAIR DEFECTIVE PARTS</td>
<td>NO MATCH</td>
</tr>
<tr>
<td>14e REPAIR CABLES</td>
<td>NO MATCH</td>
</tr>
<tr>
<td>15b(2) DEPLOYMENT EQUIPMENT – AIR</td>
<td>15</td>
</tr>
<tr>
<td>15c(4) ORIENT ANTENNA</td>
<td>18</td>
</tr>
<tr>
<td>15c(5) INTERFACE RADAR WITH ASSOCIATE EQUIPMENT</td>
<td>NO MATCH</td>
</tr>
<tr>
<td>15c(6) ACCOMPLISH PRE-OPERATIONAL CHECKS</td>
<td>17</td>
</tr>
</tbody>
</table>

* Percent shown is the highest percent reported for a task matched to the STS element
POI blocks and objectives are well supported by survey data based on percentages of first-enlistment personnel performing tasks or with considerations given to TE and TD ratings calculated for those tasks.

A review of tasks not referenced to the POI identified over 50 tasks, performed by more than 30 percent of the first-enlistment AC&W radar personnel. Forty of these tasks had high TE ratings, indicating some form of structured training of those tasks is appropriate. Table 20 lists several of these tasks. Some of the tasks received low task difficulty ratings, so may not be good items for resident training. Others, such as those involving soldering techniques, may already be taught in special training courses. Additionally, certain of these nonreferenced tasks may not be suitable for entry level training due to limited facilities or training equipment costs. Nevertheless, subject-matter specialists and training personnel should review and evaluate the entire list of nonreferenced tasks, found in the TRAINING EXTRACT accompanying this report, to determine if POI revisions are necessary.
Because the TE and TD ratings are the composite opinion of experienced career ladder personnel on training for a 1-48 TAFMS person, such data can assist training developers in deciding what tasks should be emphasized in entry-level training. Tasks receiving high ratings on both task factors accompanied by moderate to high personnel performing percentages may warrant resident training. Those tasks receiving high task factor ratings, but low personnel performing percentages, may be more appropriately planned for OJT programs within the career ladder. Low task factor ratings may highlight tasks best left out of training for new 303X2 personnel, but this decision must be weighed against percent performing data, command concerns, and criticality of the task to readiness, contingency planning, or safety programs.

Specialty Training Standard (STS)

A comprehensive review of STS 303X2, dated August 1982, compared STS items to survey data. STS paragraphs containing general information or subject-matter-knowledge requirements were not evaluated. Overall, the technical elements of the STS with tasks referenced to them generally were well supported in terms of being performed by substantial percentages of 303X2 reference groups. All but a few elements were performed by at least 20 percent of the respondents in their first-enlistment, or at the 5- or 7-skill levels. Technical elements which reflected low percent members performing (less than 20 percent) or were without matched tasks are listed in Table 18. These elements should be reviewed by career ladder managers to determine the appropriateness of their inclusion in the STS. These elements may not have been matched because inventory tasks relative to that item were unclear or omitted. If it is determined tasks were unclear or omitted, it is requested that subject-matter specialists draft the necessary task statements and forward them to USAFOMC/OMYV for inclusion in the next inventory constructed for this specialty.

A number of job inventory tasks were not matched to STS elements. For the most part, these tasks not referenced involved supervision and management duties. There were, however, several tasks pertaining to supply and equipment duties, and to mobile radar activities which were performed by more than 20 percent of the personnel in at least one of the referenced groups. These tasks are listed in Table 19. Such tasks not referenced should be covered by some existing element or a new item should be added to the STS.

Plan of Instruction (POI)

(E3ABR30332)

Based on the previously mentioned assistance from technical school subject-matter specialists in matching inventory tasks to the E3ABR30332, POI, dated June 1983, a computer product was generated displaying the results of the matching process. Information furnished for consideration includes percent members performing data for first-job and first-enlistment personnel and secondary factor TE and TD ratings.
<table>
<thead>
<tr>
<th>TASKS</th>
<th>PERCENT MEMBERS PERFORMING</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TNG EMP JOB (N=240) ENL (N=395) TASK DIFF</td>
</tr>
<tr>
<td>G371 READ AND INTERPRET EQUIPMENT TECHNICAL MANUALS</td>
<td>6.78 67.9 68.4 5.64</td>
</tr>
<tr>
<td>K529 PERFORM RADAR RECEIVING SYSTEM OPERATIONAL CHECKS USING CONVENTIONAL TEST EQUIPMENT</td>
<td>6.33 46.2 46.1 5.86</td>
</tr>
<tr>
<td>*G363 PERFORM HIGH RELIABILITY SOLDERING ON PRINTED CIRCUIT BOARDS</td>
<td>5.99 38.3 41.8 6.25</td>
</tr>
<tr>
<td>H410 PERFORM RADAR TRANSMITTER OPERATIONAL CHECKS</td>
<td>5.99 65.8 66.1 4.25</td>
</tr>
<tr>
<td>*G362 PERFORM GENERAL SOLDERING, OTHER THAN PRINTED CIRCUIT BOARDS</td>
<td>5.97 75.0 75.7 3.70</td>
</tr>
<tr>
<td>H393 ADJUST TRANSMITTER POWER SUPPLIES</td>
<td>5.74 48.3 48.6 4.92</td>
</tr>
<tr>
<td>H398 ISOLATE MODULATOR MALFUNCTIONS</td>
<td>5.71 38.7 42.5 6.55</td>
</tr>
<tr>
<td>H406 ISOLATE TRANSMITTER POWER SUPPLY MALFUNCTIONS</td>
<td>5.71 37.9 44.1 5.89</td>
</tr>
<tr>
<td>K528 PERFORM RADAR RECEIVING SYSTEM OPERATIONAL CHECKS USING BUILT-IN TEST EQUIPMENT (BITE)</td>
<td>5.70 32.5 32.2 4.84</td>
</tr>
<tr>
<td>*G374 REMOVE OR REPLACE DISCRETE ELECTRONIC COMPONENTS, SUCH AS TUBES, RESISTORS, CAPACITORS, OR RELAYS</td>
<td>5.69 75.0 74.4 4.09</td>
</tr>
<tr>
<td>G355 ISOLATE INTERLOCK PROTECTIVE CIRCUIT MALFUNCTIONS</td>
<td>5.66 44.6 48.4 5.19</td>
</tr>
<tr>
<td>H407 ISOLATE TRANSMITTER PROTECTIVE CIRCUIT MALFUNCTIONS</td>
<td>5.64 28.3 33.7 5.70</td>
</tr>
<tr>
<td>H400 ISOLATE POWER OUTPUT CIRCUIT MALFUNCTIONS</td>
<td>5.62 31.3 36.7 6.08</td>
</tr>
<tr>
<td>E235 MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)</td>
<td>5.59 76.2 73.2 4.38</td>
</tr>
<tr>
<td>H383 ADJUST MODULATOR CONTROL CIRCUITS</td>
<td>5.59 41.7 42.5 5.08</td>
</tr>
<tr>
<td>K530 PERFORM SIGNAL DISTRIBUTION SYSTEM OPERATIONAL CHECKS</td>
<td>5.59 28.7 30.4 4.85</td>
</tr>
<tr>
<td>G358 ISOLATE SOLID-STATE POWER SUPPLY MALFUNCTIONS</td>
<td>5.55 34.2 38.7 6.01</td>
</tr>
<tr>
<td>*G377 REMOVE OR REPLACE SOLID-STATE DEVICES</td>
<td>5.52 54.2 54.2 4.81</td>
</tr>
<tr>
<td>G356 ISOLATE POWER DISTRIBUTION SYSTEM MALFUNCTIONS</td>
<td>5.51 38.7 44.8 5.47</td>
</tr>
</tbody>
</table>

* Indicates tasks not matched to POI 3ABR30332

MEAN TE = 2.30, SD = 1.72
MEAN TD = 5.00, SD = 1.00
TRAINING ANALYSIS

Occupational survey data are one of the many sources of information which can be used to assist training managers in the development of training programs relevant to the needs of personnel working in their first assignments in a career ladder. Factors which may be used to evaluate training are, primarily, the percent first-job (1-24 months TAFMS) or first-enlistment (1-48 months TAFMS) members performing tasks, and secondarily, considerations such as training emphasis and task difficulty ratings, mission criticality of tasks, or availability of training equipment or instructors. Percent members performing (PMP) 303X2 tasks, and training emphasis and task difficulty factors were used in evaluating the Specialty Training Standard (STS) and the Plan of Instruction (POI) for the 303X2 career ladder. Training personnel from the 3300 Technical Training Wing, Keesler AFB MS, matched inventory tasks to appropriate sections of the POI and STS. It was this matching upon which comparisons were based. A complete computer listing displaying the percent members performing, training emphasis ratings, and task difficulty ratings for each task statement, along with POI and STS matchings, was forwarded to the school for their use in any further detailed review of training documents. A summary of that information is described below.

Training Emphasis and Task Difficulty Data

As discussed in the Task Factor Administration section, training emphasis (TE) and task difficulty (TD) data can be used to provide information on training needs as perceived by experienced technicians within the specialty. This information, when used in support of percent members performing, can aid training managers in determining if STS or POI adjustments or revisions are needed.

Table 17 lists the top 20 tasks which 73 senior 303X2 technicians indicated as requiring the highest TE. While the percentages of first-enlistment personnel performing these tasks are not high (only six tasks are performed by 50 percent or above), every task is performed by at least 30 percent of the first-termers. This suggests that these tasks, on the whole, are deserving of some form of common structured training.

Further review of Table 17 reflects that all but 4 of the 20 tasks were matched to the 3ABR30332 POI, indicating the majority of these high TE tasks are taught in resident technical training. The four tasks not matched to the POI relate to soldering techniques and the removal and replacement of components, or solid-state devices. These tasks generally are inherent to all communications-electronics career ladders and will be learned at base level through on-the-job training (OJT), field, or mobile training, which supports their omission from the resident training course. In addition, three of these four tasks received below average TD ratings (i.e., the task is easy to learn) so may not be most efficiently taught in resident technical training.
### TABLE 16
**TYPES OF RADAR EQUIPMENT MAINTAINED BY FIRST-ENLISTMENT PERSONNEL**  
(PERCENT MEMBERS RESPONDING)

<table>
<thead>
<tr>
<th>RADAR EQUIPMENT*</th>
<th>PERCENT MAINTAINING (N=395)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPA-62C RADAR INDICATOR (SS)</td>
<td>44</td>
</tr>
<tr>
<td>UPX-23 INTERROGATOR SYSTEM (SS)</td>
<td>37</td>
</tr>
<tr>
<td>TPS-43E RADAR SYSTEM (SS)</td>
<td>36</td>
</tr>
<tr>
<td>GPS-13A DEFRUITER (SS)</td>
<td>28</td>
</tr>
<tr>
<td>UPX-14 INTERROGATOR SET (TT)</td>
<td>24</td>
</tr>
<tr>
<td>UPA-59A DECODER (SS)</td>
<td>23</td>
</tr>
<tr>
<td>GPA-127 RADAR INDICATOR (TT)</td>
<td>21</td>
</tr>
<tr>
<td>GPA-122 CODER-DECODER (SS)</td>
<td>16</td>
</tr>
<tr>
<td>TSQ-61 OPERATIONS CENTRAL (SS)</td>
<td>17</td>
</tr>
<tr>
<td>TM-1 RADAR TRAINER (SS)</td>
<td>16</td>
</tr>
<tr>
<td>UPA_59 DECODER (SS)</td>
<td>15</td>
</tr>
<tr>
<td>GPS-T4 RADAR TARGET SIMULATOR (TT)</td>
<td>13</td>
</tr>
<tr>
<td>OA-929 RADAR INDICATOR (TT)</td>
<td>13</td>
</tr>
<tr>
<td>FPS-91 RADAR SYSTEM (TT)</td>
<td>11</td>
</tr>
<tr>
<td>AM-1796 DELAY LINE SET (TT)</td>
<td>11</td>
</tr>
<tr>
<td>GPS-T2 RADAR TRAINER (TT)</td>
<td>10</td>
</tr>
<tr>
<td>MPS-11 RADAR SYSTEM (SS)</td>
<td>9</td>
</tr>
</tbody>
</table>

* SS = Newer solid-state equipment  
  TT = Older tube-type equipment
<table>
<thead>
<tr>
<th>TASKS</th>
<th>FIRST ENLISTMENT PERSONNEL (N=395)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G361</td>
<td>PERFORM GENERAL HOUSEKEEPING PROCEDURES</td>
</tr>
<tr>
<td>G359</td>
<td>PERFORM CORROSION CONTROL</td>
</tr>
<tr>
<td>G372</td>
<td>REMOVE OR REPLACE CABLES</td>
</tr>
<tr>
<td>G362</td>
<td>PERFORM GENERAL SOLDERING, OTHER THAN PRINTED CIRCUIT BOARDS</td>
</tr>
<tr>
<td>G374</td>
<td>REMOVE OR REPLACE DISCRETE ELECTRONIC COMPONENTS, SUCH AS TUBES, RESISTORS, CAPACITORS, OR RELAYS</td>
</tr>
<tr>
<td>E235</td>
<td>MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)</td>
</tr>
<tr>
<td>G368</td>
<td>PERFORM POWER SUPPLY OPERATIONAL CHECKS</td>
</tr>
<tr>
<td>G349</td>
<td>FABRICATE COAXIAL CABLES</td>
</tr>
<tr>
<td>E236</td>
<td>MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAGS)</td>
</tr>
<tr>
<td>G371</td>
<td>READ AND INTERPRET EQUIPMENT TECHNICAL MANUALS</td>
</tr>
<tr>
<td>H410</td>
<td>PERFORM RADAR TRANSMITTER OPERATIONAL CHECKS</td>
</tr>
<tr>
<td>G360</td>
<td>PERFORM FACILITIES MAINTENANCE, SUCH AS PAINTING BUILDINGS</td>
</tr>
<tr>
<td>I439</td>
<td>LUBRICATE ANTENNA SYSTEM COMPONENTS</td>
</tr>
<tr>
<td>F283</td>
<td>COMPLETE AF FORMS 2005 (ISSUE/TURN IN REQUEST)</td>
</tr>
<tr>
<td>L557</td>
<td>ADJUST RANGE MARK CIRCUITS</td>
</tr>
<tr>
<td>G373</td>
<td>REMOVE OR REPLACE CIRCUIT BOARDS OR CARDS</td>
</tr>
<tr>
<td>G381</td>
<td>TORQUE MISCELLANEOUS HARDWARE, SUCH AS SCREWS OR BOLTS</td>
</tr>
<tr>
<td>H409</td>
<td>PERFORM RADAR TRANSMITTER INSULATING OIL CHECKS</td>
</tr>
<tr>
<td>G343</td>
<td>ADJUST POWER SUPPLIES OTHER THAN SOLID-STATE POWER SUPPLIES</td>
</tr>
<tr>
<td>L575</td>
<td>PERFORM PLAN POSITION INDICATOR (PPI) OPERATIONAL CHECKS</td>
</tr>
<tr>
<td>G379</td>
<td>TERMINATE CABLES</td>
</tr>
<tr>
<td>L552</td>
<td>ADJUST CURSOR CIRCUITS</td>
</tr>
<tr>
<td>L559</td>
<td>ADJUST SWEEP GENERATING CIRCUITS</td>
</tr>
<tr>
<td>G377</td>
<td>REMOVE OR REPLACE SOLID-STATE DEVICES</td>
</tr>
<tr>
<td>H418</td>
<td>REMOVE OR REPLACE TRANSMITTER COOLING SYSTEM FLUIDS</td>
</tr>
<tr>
<td>L550</td>
<td>ADJUST CATHODE RAY TUBE (CRT) DEFLECTION CIRCUITS</td>
</tr>
<tr>
<td>G380</td>
<td>TEST INTERLOCK CIRCUITS</td>
</tr>
<tr>
<td>L551</td>
<td>ADJUST CRT PROTECTION CIRCUITS</td>
</tr>
<tr>
<td>G365</td>
<td>PERFORM INTERLOCK PROTECTIVE CIRCUIT OPERATIONAL CHECKS</td>
</tr>
<tr>
<td>H417</td>
<td>REMOVE OR REPLACE TRANSMITTER COOLING SYSTEM COMPONENTS</td>
</tr>
<tr>
<td>HOW DO YOU FIND YOUR JOB:</td>
<td>1-48 MOS TAFMS COMP</td>
</tr>
<tr>
<td>--------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td></td>
<td>303X2 SAMPLE (N=395)</td>
</tr>
<tr>
<td>DULL</td>
<td>12</td>
</tr>
<tr>
<td>SO-SO</td>
<td>15</td>
</tr>
<tr>
<td>INTERESTING</td>
<td>73</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HOW WELL DOES YOUR JOB UTILIZE YOUR TALENTS:</th>
<th>1-48 MOS TAFMS</th>
<th>49-96 MOS TAFMS</th>
<th>97+ MOS TAFMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>LITTLE OR NOT AT ALL</td>
<td>17</td>
<td>17</td>
<td>21</td>
</tr>
<tr>
<td>FAIRLY WELL TO PERFECTLY</td>
<td>83</td>
<td>82</td>
<td>79</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HOW WELL DOES YOUR JOB UTILIZE YOUR TRAINING:</th>
<th>1-48 MOS TAFMS</th>
<th>49-96 MOS TAFMS</th>
<th>97+ MOS TAFMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>VERY LITTLE OR NOT AT ALL</td>
<td>22</td>
<td>17</td>
<td>27</td>
</tr>
<tr>
<td>FAIRLY WELL TO PERFECTLY</td>
<td>78</td>
<td>81</td>
<td>73</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DO YOU PLAN TO REENLIST:</th>
<th>1-48 MOS TAFMS</th>
<th>49-96 MOS TAFMS</th>
<th>97+ MOS TAFMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO, WILL PROBABLY RETIRE</td>
<td>-</td>
<td>-</td>
<td>19</td>
</tr>
<tr>
<td>NO, OR PROBABLY NO</td>
<td>45</td>
<td>32</td>
<td>14</td>
</tr>
<tr>
<td>YES, OR PROBABLY YES</td>
<td>55</td>
<td>67</td>
<td>67</td>
</tr>
</tbody>
</table>

* Includes personnel in AFSCs 321X2, 322X2, 328X2/3/4, 404X1, 432X0/2/4, 427X5, and 461X0

NOTE: Columns may not add up to 100 percent due to rounding or nonresponses
### TABLE 13

**RELATIVE PERCENT TIME SPENT ON DUTIES BY 303X2 TAFMS GROUPS**

<table>
<thead>
<tr>
<th>DUTIES</th>
<th>1-48 (N=395)</th>
<th>49-96 (N=78)</th>
<th>97+ (N=287)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A ORGANIZING AND PLANNING</td>
<td>3</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td>B DIRECTING AND IMPLEMENTING</td>
<td>2</td>
<td>7</td>
<td>11</td>
</tr>
<tr>
<td>C EVALUATING AND INSPECTING</td>
<td>4</td>
<td>8</td>
<td>14</td>
</tr>
<tr>
<td>D TRAINING</td>
<td>3</td>
<td>14</td>
<td>10</td>
</tr>
<tr>
<td>E PERFORMING ADMINISTRATIVE TASKS</td>
<td>9</td>
<td>13</td>
<td>18</td>
</tr>
<tr>
<td>F PERFORMING SUPPLY AND EQUIPMENT FUNCTIONS</td>
<td>6</td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>G PERFORMING GENERAL AND PREVENTIVE MAINTENANCE</td>
<td>20</td>
<td>11</td>
<td>6</td>
</tr>
<tr>
<td>H MAINTAINING RADAR TRANSMITTER SYSTEMS</td>
<td>11</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>I MAINTAINING ANTENNA SYSTEMS</td>
<td>4</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>J MAINTAINING WAVE-GUIDE SYSTEMS</td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>K MAINTAINING RADAR RECEIVERS AND TIMING SYSTEMS</td>
<td>11</td>
<td>7</td>
<td>4</td>
</tr>
<tr>
<td>L MAINTAINING INDICATORS OR VIDEO MAPPERS</td>
<td>10</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>M MAINTAINING ANTIJAM SYSTEMS</td>
<td>1</td>
<td>1</td>
<td>*</td>
</tr>
<tr>
<td>N MAINTAINING SELECTIVE IDENTIFICATION FEATURES (SIF)</td>
<td>4</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>O MAINTAINING RADOMES</td>
<td>*</td>
<td>1</td>
<td>*</td>
</tr>
<tr>
<td>P MAINTAINING RADAR TRAINERS</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Q INSTALLING, TESTING, AND OPERATING RADAR AND AUXILIARY EQUIPMENT FOR SITE OR MOBILITY</td>
<td>7</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>R PERFORMING RADAR EVALUATION FUNCTIONS</td>
<td>*</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

* Denotes less than 1 percent
FIGURE 2
DISTRIBUTION OF 303X2 FIRST-ENLISTMENT PERSONNEL ACROSS CAREER LADDER JOBS (Percent Members Responding) (N=395)

- TACTICAL RADAR MAINTENANCE PERSONNEL: 28%
- FIXED RADAR MAINTENANCE PERSONNEL: 26%
- TACTICAL RADAR CREW MEMBERS: 15%
- JUNIOR AC&W PERSONNEL: 15%
- INSTRUCTORS: 2%
- RADAR MAINTENANCE SUPERVISORS: 2%
- OTHERS: 22%
- *ISOLATES: 35

* DID NOT GROUP WITH ANY MAJOR JOB
<table>
<thead>
<tr>
<th>DUTIES</th>
<th>TAC (N=401)</th>
<th>USAFE (N=107)</th>
<th>PACAP (N=34)</th>
<th>AFCC (N=161)</th>
<th>ATC (N=42)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A ORGANIZING AND PLANNING</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>10</td>
<td>6</td>
</tr>
<tr>
<td>B DIRECTING AND IMPLEMENTING</td>
<td>5</td>
<td>6</td>
<td>5</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>C EVALUATING AND INSPECTING</td>
<td>8</td>
<td>9</td>
<td>8</td>
<td>9</td>
<td>7</td>
</tr>
<tr>
<td>D TRAINING</td>
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### TABLE 23

TYPES OF RADAR EQUIPMENT MAINTAINED BY 303X2 MAJCOM GROUPS  
(PERCENT MEMBERS RESPONDING)

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* SS = Solid-state equipment  
** TT = Tube-type equipment
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<tbody>
<tr>
<td></td>
<td>54%</td>
<td>62%</td>
<td>59%</td>
<td>47%</td>
<td>64%</td>
</tr>
</tbody>
</table>
ANALYSIS OF CONUS VERSUS OVERSEAS GROUPS

A comparison was made between the tasks performed and the background data for the DAFSC 30352 personnel assigned within the CONUS versus those assigned to overseas locations. Overall, the jobs performed by the two groups are very similar with respect to tasks performed and the time spent on those tasks. The job of the overseas respondents, however, seems to involve more of a mobile mission, primarily because most of the AC&W radars at overseas locations are of a mobile type.

Table 25 provides various background data for both groups. Five-skill level personnel sampled in CONUS numbered 284, while those overseas totaled 115. The average number of tasks performed by these group members was 113 for CONUS personnel and 163 for the overseas incumbents. As expected, time in service is higher for the overseas group and, correspondingly, the percentage of first-enlistment personnel is lower in the overseas group (56 percent overseas versus 62 percent for CONUS). The two groups are very similar in all job satisfaction indicators—reenlistment plans reflect the only variance, with overseas personnel expressing more favorable intentions (60 percent versus 54 percent for CONUS). Although many pieces of equipment are maintained by both groups (see Table 25 for examples), some significant differences between the groups are attributable to the nature of the equipment, fixed or mobile, or the mission, air defense of the North American Continent or mobile tactical air control and warning.

A number of task differences and similarities were noted between CONUS and overseas incumbents. There were only three tasks identified where percent members performing was greater for CONUS personnel (see Table 26). Two of those tasks are unique to training jobs found primarily in the CONUS. Several tasks, such as conducting OJT, adjusting modulators, removing or replacing power supply components, and performing general soldering, are performed by roughly equal percentages of CONUS and overseas respondents. Finally, Table 26 reveals mobile radar type tasks, such as operating 407L loading kits, erecting tents, constructing field fortifications, and erecting mobile antennas, are performed by substantially higher percentages of overseas personnel.
<table>
<thead>
<tr>
<th>Measure</th>
<th>CONUS PERSONNEL (N=284)</th>
<th>OVERSEAS PERSONNEL (N=115)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVERAGE NUMBER OF TASKS PERFORMED:</td>
<td>113</td>
<td>163</td>
</tr>
<tr>
<td>JOB DIFFICULTY INDEX:</td>
<td>12.8</td>
<td>15.0</td>
</tr>
<tr>
<td>PERCENT SUPERVISING:</td>
<td>31%</td>
<td>37%</td>
</tr>
<tr>
<td>AVERAGE MONTHS TAFMS:</td>
<td>57</td>
<td>71</td>
</tr>
<tr>
<td>PERCENT IN FIRST ENLISTMENT:</td>
<td>62%</td>
<td>56%</td>
</tr>
<tr>
<td>FIND JOB INTERESTING:</td>
<td>67%</td>
<td>70%</td>
</tr>
<tr>
<td>FEEL JOB UTILIZES TALENTS AT LEAST FAIRLY WELL:</td>
<td>79%</td>
<td>83%</td>
</tr>
<tr>
<td>FEEL JOB UTILIZES TRAINING AT LEAST FAIRLY WELL:</td>
<td>78%</td>
<td>77%</td>
</tr>
<tr>
<td>PLAN TO REENLIST:</td>
<td>54%</td>
<td>60%</td>
</tr>
</tbody>
</table>

EQUIPMENT MAINTAINED (OVER 10 PERCENT RESPONDING):

**RADAR TRAINERS**
- **GPS-T2 (TT)**: 8% 20%
- **GPS-T4 (TT)**: 11% 24%
- **TM-1 (SS)**: 13% 29%

**RADAR SYSTEMS**
- **FPS-6A (TT)**: 6% 10%
- **FPS-91 (TT)**: 11% -
- **FPS-93A (TT)**: - 10%
- **PPS-116 (TT)**: 11% -
- **TPS-43E (SS)**: 25% 51%
<table>
<thead>
<tr>
<th>CODE-DECODER SYSTEMS</th>
<th>CONUS PERSONNEL (N=284)</th>
<th>OVERSEAS PERSONNEL (N=115)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPA-122 (SS)</td>
<td>15%</td>
<td>18%</td>
</tr>
<tr>
<td>GPA-125 (SS)</td>
<td>3%</td>
<td>18%</td>
</tr>
<tr>
<td>UPA-59 (SS)</td>
<td>8%</td>
<td>24%</td>
</tr>
<tr>
<td>UPA-59A (SS)</td>
<td>17%</td>
<td>37%</td>
</tr>
<tr>
<td>INTERROGATOR-RESPONDER SETS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UPX-14 (TT)</td>
<td>24%</td>
<td>13%</td>
</tr>
<tr>
<td>UPX-23 (SS)</td>
<td>26%</td>
<td>51%</td>
</tr>
<tr>
<td>ANCILLARY EQUIPMENT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AM-1796 DELAY LINE SETS (TT)</td>
<td>14%</td>
<td>-</td>
</tr>
<tr>
<td>GPA-127 RADAR INDICATORS (TT)</td>
<td>22%</td>
<td>11%</td>
</tr>
<tr>
<td>OA-15 CAMERAS (TT)</td>
<td>1%</td>
<td>10%</td>
</tr>
<tr>
<td>OA-929 RADAR INDICATORS (TT)</td>
<td>11%</td>
<td>11%</td>
</tr>
<tr>
<td>TSQ-61 OPERATIONS CENTRAL (SS)</td>
<td>10%</td>
<td>27%</td>
</tr>
<tr>
<td>UPA-62C RADAR INDICATORS (SS)</td>
<td>31%</td>
<td>65%</td>
</tr>
</tbody>
</table>

SS = Solid-state equipment
TT = Vacuum tube-type equipment
### TABLE 26

**TASKS WHICH BEST DIFFERENTIATE DAPSC 30352**

**CONUS AND OVERSEAS PERSONNEL**

<table>
<thead>
<tr>
<th>TASKS</th>
<th>CONUS (N=284)</th>
<th>OVERSEAS (N=115)</th>
<th>DIFFERENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PREPARE LESSON PLANS</td>
<td>17</td>
<td>3</td>
<td>+14</td>
</tr>
<tr>
<td>ADMINISTER OR SCORE TESTS</td>
<td>11</td>
<td>0</td>
<td>+11</td>
</tr>
<tr>
<td>PERFORM FACILITY ROUTINES WITH THE AN/FYQ-47 COMMON DIGITIZERS</td>
<td>13</td>
<td>2</td>
<td>+11</td>
</tr>
<tr>
<td>REMOVE OR REPLACE IF PREAMPLIFIER COMPONENTS</td>
<td>30</td>
<td>27</td>
<td>+3</td>
</tr>
<tr>
<td>ADJUST ANTENNA CONTROL SYSTEMS</td>
<td>33</td>
<td>31</td>
<td>+2</td>
</tr>
<tr>
<td>CONDUCT OJT</td>
<td>22</td>
<td>22</td>
<td>0</td>
</tr>
<tr>
<td>REMOVE OR REPLACE TRANSMIT-RECEIVE (TR) TUBES</td>
<td>31</td>
<td>31</td>
<td>0</td>
</tr>
<tr>
<td>ISOLATE ANALOGY MTI RECEIVER MALFUNCTIONS</td>
<td>23</td>
<td>24</td>
<td>-1</td>
</tr>
<tr>
<td>ADJUST MODULATORS</td>
<td>37</td>
<td>40</td>
<td>-3</td>
</tr>
<tr>
<td>ADJUST ANGLE MARK CIRCUITS</td>
<td>40</td>
<td>52</td>
<td>-12</td>
</tr>
<tr>
<td>REMOVE OR REPLACE POWER SUPPLY COMPONENTS</td>
<td>40</td>
<td>52</td>
<td>-12</td>
</tr>
<tr>
<td>PERFORM GENERAL SOLDERING</td>
<td>65</td>
<td>78</td>
<td>-13</td>
</tr>
<tr>
<td>OPERATE 407L LOADING KITS</td>
<td>8</td>
<td>32</td>
<td>-24</td>
</tr>
<tr>
<td>RIG VEHICLES FOR DEPLOYMENTS OR REDEPLOYMENTS</td>
<td>16</td>
<td>41</td>
<td>-25</td>
</tr>
<tr>
<td>ADJUST DEFRUITERS</td>
<td>17</td>
<td>42</td>
<td>-25</td>
</tr>
<tr>
<td>ERECT TENTS</td>
<td>17</td>
<td>43</td>
<td>-26</td>
</tr>
<tr>
<td>CONSTRUCT FIELD FORTIFICATIONS</td>
<td>9</td>
<td>35</td>
<td>-26</td>
</tr>
<tr>
<td>LOAD CODES IN KIR-1A COMPUTERS</td>
<td>17</td>
<td>43</td>
<td>-26</td>
</tr>
<tr>
<td>ERECT CAMOUFLAGE NETTINGS</td>
<td>18</td>
<td>44</td>
<td>-26</td>
</tr>
<tr>
<td>PACK RADAR EQUIPMENT FOR DEPLOYMENT</td>
<td>19</td>
<td>46</td>
<td>-27</td>
</tr>
<tr>
<td>REMOVE OR REPLACE SOLID-STATE SIF DECODER COMPONENTS</td>
<td>16</td>
<td>44</td>
<td>-28</td>
</tr>
<tr>
<td>ERECT MOBILE ANTENNAS</td>
<td>16</td>
<td>44</td>
<td>-28</td>
</tr>
<tr>
<td>TEAR DOWN, INSPECT, CLEAN, AND REASSEMBLE M-16 RIFLES</td>
<td>19</td>
<td>51</td>
<td>-32</td>
</tr>
</tbody>
</table>
COMPARISON TO PREVIOUS SURVEY

The results of this 303X2 survey were compared to those of the previous Occupational Survey Report, AFPT 90–303–400, Volume III, dated May 1981. This analysis can help to identify changes in the career ladder due to new missions, changing management policies, new operational equipment, etc. Generally, the two surveys reported consistent findings, with differences appearing in the following areas:

A review of the 303X2 career ladder structure reveals that no substantial job changes have occurred in the last 4 years. Table 27 lists the major job groups identified in the 1980 survey and the equivalent major job groups identified in the current study. The biggest difference seems to be that in the 1984 survey the journeyman radar job is identified by two distinct groups, theFixed and the Tactical Radar Maintenance Personnel clusters, whereas in 1980 the fixed and tactical radar maintenance jobs were accounted for as jobs within the AC&W Radar Maintenance Personnel cluster. Another difference is that the engineering installation and radar evaluations jobs (representing less than 5 percent of the current survey) were not identifiable in the previous survey. These differences are minor, and the overall structure is relatively stable.

Table 28 lists the percentages of 1980 and 1984 first-enlistment personnel maintaining various types of radar equipment. The overall trend appears to be that career field equipment is being replaced or modified and a greater percentage of first-enlistment personnel are maintaining solid-state equipment than in 1980.

Job satisfaction data were reviewed for both 1980 and 1984, first, second, and career enlistment groups (see Table 25). Personnel across all 1984 enlistment groups expressed higher job satisfaction than the 1980 respondents, with the greatest increase expressed by the first-enlistment group. For example, 83 percent of the 1984 first-enlistment personnel felt their talents were at least fairly well utilized, compared to 61 percent in 1980.
TABLE 27
A COMPARISON OF MAJOR JOB GROUPS IDENTIFIED
IN THE 1981 AND 1985 OSR

<table>
<thead>
<tr>
<th>1981 CLUSTERS AND INDEPENDENT JOB TYPES</th>
<th>1985 CLUSTERS AND INDEPENDENT JOB TYPES</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADAR MAINTENANCE SUPERVISORS (C)</td>
<td>RADAR MAINTENANCE SUPERVISORS (C)</td>
</tr>
<tr>
<td>NCOICs, PLANS AND SCHEDULING (IJT)</td>
<td>PROGRAM MANAGERS (IJT)</td>
</tr>
<tr>
<td>TACTICAL RADAR MAINTENANCE NCOICs (IJT)</td>
<td>QUALITY CONTROL INSPECTORS (IJT)</td>
</tr>
<tr>
<td>QUALITY CONTROL PERSONNEL (C)</td>
<td>JUNIOR AC&amp;W RADAR PERSONNEL (C)</td>
</tr>
<tr>
<td>JUNIOR AC&amp;W RADAR MAINTENANCE PERSONNEL (C)</td>
<td>FIXED RADAR MAINTENANCE PERSONNEL (C)</td>
</tr>
<tr>
<td>ANCILLARY MAINTENANCE PERSONNEL (IJT)</td>
<td>TACTICAL RADAR MAINTENANCE PERSONNEL (C)</td>
</tr>
<tr>
<td>AC&amp;W RADAR MAINTENANCE PERSONNEL (C)</td>
<td>TACTICAL RADAR CREW MEMBERS (IJT)</td>
</tr>
<tr>
<td>TACTICAL RADAR CREW MEMBERS (IJT)</td>
<td>ENGINEERING INSTALLATION TEAM MEMBERS (IJT)</td>
</tr>
<tr>
<td>NI*</td>
<td>RADAR EVALUATION PERSONNEL (C)</td>
</tr>
<tr>
<td>NI*</td>
<td>JOB CONTROLLERS (IJT)</td>
</tr>
<tr>
<td>JOB CONTROL PERSONNEL (C)</td>
<td>INSTRUCTOR PERSONNEL (C)</td>
</tr>
<tr>
<td>RESIDENT COURSE INSTRUCTORS (IJT)</td>
<td></td>
</tr>
</tbody>
</table>

* Not identifiable
C = Cluster
IJT = Independent Job Type
### TABLE 28

**A COMPARISON BETWEEN CERTAIN EQUIPMENT MAINTAINED BY 1980 AND 1984 SURVEY FIRST-ENLISTMENT PERSONNEL**

<table>
<thead>
<tr>
<th>EQUIPMENT OR SYSTEM</th>
<th>1980</th>
<th>1984</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPS-90 RADAR SET (TT)</td>
<td>29</td>
<td>2</td>
</tr>
<tr>
<td>FPS-107 RADAR SET (TT)</td>
<td>21</td>
<td>3</td>
</tr>
<tr>
<td>TPS-43E RADAR SET (SS)</td>
<td>24</td>
<td>36</td>
</tr>
<tr>
<td>GPA-127 RADAR INDICATOR (TT)</td>
<td>41</td>
<td>21</td>
</tr>
<tr>
<td>UPA-35 RADAR INDICATOR (TT)</td>
<td>13</td>
<td>3</td>
</tr>
<tr>
<td>UPA-62 RADAR INDICATOR (SS)</td>
<td>23</td>
<td>44</td>
</tr>
<tr>
<td>GPX-7A IFF SYSTEM (TT)</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>GPX-188 IFF SYSTEM (TT)</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>UPA-59 DECODER (SS)</td>
<td>20</td>
<td>15</td>
</tr>
<tr>
<td>UPA-59A DECODER (SS)</td>
<td>12</td>
<td>23</td>
</tr>
<tr>
<td>UPX-14 INTERROGATOR (TT)</td>
<td>34</td>
<td>24</td>
</tr>
<tr>
<td>UPX-23 INTERROGATOR (SS)</td>
<td>24</td>
<td>37</td>
</tr>
</tbody>
</table>

TT = Vacuum Tube type Equipment  
SS = Solid-State Type Equipment
### TABLE 29

**COMPARISON OF JOB SATISFACTION DATA FOR VARIOUS 303X2 ENLISTMENT GROUPS IN THE 1980 AND 1984 SURVEYS**  
(PERCENT MEMBERS RESPONDING)

<table>
<thead>
<tr>
<th></th>
<th>First Enlistment</th>
<th>Second Enlistment</th>
<th>Career</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIND JOB INTERESTING</td>
<td>53 73</td>
<td>51 67</td>
<td>68 69</td>
</tr>
<tr>
<td>TALENTS USED AT LEAST FAIRLY WELL</td>
<td>61 83</td>
<td>61 82</td>
<td>75 79</td>
</tr>
<tr>
<td>TRAINING USED AT LEAST FAIRLY WELL</td>
<td>68 78</td>
<td>68 81</td>
<td>73 73</td>
</tr>
<tr>
<td>PLAN TO REENLIST</td>
<td>27 55</td>
<td>42 67</td>
<td>57 67</td>
</tr>
</tbody>
</table>
ANALYSIS OF WRITE-IN COMMENTS

Respondents are invited to write in any comments relative to their job in back of their inventory booklet. In this survey, a fairly small amount of write-in comments addressed career ladder irritants—overall, the number of write-in comments was relatively low (roughly 1 percent). Generally, they involve perceptions of training or personnel misutilization, such as:

"Engineering and installation is totally different from O&M outfits and should be recognized as such. I do not maintain radar equipment, only install or remove it. I do not feel that I should be tested under WAPS on equipment I don't maintain."

"I only remove and install fixed radar equipment. I feel E&I should be a shred of AC&W radar because most of what I was taught in tech school I will never use in this job."

"I am assigned to an E&I team...I personally do not feel the full potential of my training is being used by the Air Force."

"I was trained to be a maintenance man, I'm now a supervisor. That's 16 years of experience stuck behind a desk."

"I am an instructor, I teach and do not maintain the equipment. This is a waste of the knowledge I have gained on the 407L radar systems."

The three comments, above, pertaining to Engineering Installation personnel are somewhat supported by job satisfaction data presented in the SPECIALTY JOBS section for the Engineering Installation Team members.
## TABLE A12

**GROUP ID NUMBER AND TITLE:** GRP228 - ANCILLARY WORKCENTER REPAIRMEN  
**NUMBER IN GROUP:** 9  
**PERCENT OF CLUSTER:** 13%  
**MAJCOM DISTRIBUTION:** AFCC (89%), TAC (11%)  
**LOCATION:** CONUS (89%), OVERSEAS (11%)  
**DAFSC DISTRIBUTION:** 30352 (100%)  
**AVERAGE GRADE:** E-3  
**AVERAGE MONTHS IN SERVICE:** 24  
**AVERAGE MONTHS IN CAREER FIELD:** 19

<table>
<thead>
<tr>
<th>GROUP DIFFERENTIATING TASKS</th>
<th>PERCENT MEMBERS PERFORMING</th>
</tr>
</thead>
<tbody>
<tr>
<td>G374 REMOVE OR REPLACE DISCRETE ELECTRONIC COMPONENTS, SUCH AS TUBES, RESISTORS, CAPACITORS, OR RELAYS</td>
<td>100</td>
</tr>
<tr>
<td>G343 ADJUST POWER SUPPLIES OTHER THAN SOLID-STATE POWER SUPPLIES</td>
<td>100</td>
</tr>
<tr>
<td>L561 ADJUST VIDEO AMPLIFIER CIRCUITS</td>
<td>100</td>
</tr>
<tr>
<td>E235 MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)</td>
<td>100</td>
</tr>
<tr>
<td>G362 PERFORM GENERAL SOLDERING, OTHER THAN PRINTED CIRCUIT BOARDS</td>
<td>100</td>
</tr>
<tr>
<td>L568 ISOLATE RANGE MARK CIRCUIT MALFUNCTIONS</td>
<td>100</td>
</tr>
<tr>
<td>L559 ADJUST SWEEP GENERATING CIRCUITS</td>
<td>100</td>
</tr>
<tr>
<td>L572 ISOLATE VIDEO AMPLIFIER CIRCUIT MALFUNCTIONS</td>
<td>100</td>
</tr>
<tr>
<td>L587 REMOVE OR REPLACE SWEEP GENERATING CIRCUITS COMPONENTS</td>
<td>100</td>
</tr>
<tr>
<td>L589 REMOVE OR REPLACE VIDEO AMPLIFIER CIRCUIT COMPONENT</td>
<td>100</td>
</tr>
<tr>
<td>G373 REMOVE OR REPLACE CIRCUIT BOARDS OR CARDS</td>
<td>100</td>
</tr>
<tr>
<td>L560 ADJUST TIME-SHARING CIRCUITS</td>
<td>100</td>
</tr>
<tr>
<td>G359 PERFORM CORROSION CONTROL</td>
<td>100</td>
</tr>
<tr>
<td>E236 MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAGS)</td>
<td>100</td>
</tr>
<tr>
<td>G349 FABRICATE COAXIAL CABLES</td>
<td>100</td>
</tr>
<tr>
<td>L575 PERFORM PLAN POSITION INDICATOR (PPI) OPERATIONAL CHECKS</td>
<td>88</td>
</tr>
<tr>
<td>L552 ADJUST CURSOR CIRCUITS</td>
<td>88</td>
</tr>
<tr>
<td>L558 ADJUST RANGE STROBE CIRCUITS</td>
<td>88</td>
</tr>
<tr>
<td>G368 PERFORM POWER SUPPLY OPERATIONAL CHECKS</td>
<td>88</td>
</tr>
<tr>
<td>L557 ADJUST RANGE MARK CIRCUITS</td>
<td>88</td>
</tr>
<tr>
<td>L569 ISOLATE RANGE STROBE CIRCUIT MALFUNCTIONS</td>
<td>88</td>
</tr>
<tr>
<td>L566 ISOLATE CURSOR CIRCUIT MALFUNCTIONS</td>
<td>88</td>
</tr>
<tr>
<td>L550 ADJUST CATHODE RAY (CRT) DEFLECTION CIRCUITS</td>
<td>88</td>
</tr>
<tr>
<td>G357 ISOLATE POWER SUPPLY MALFUNCTIONS OTHER THAN SOLID-STATE</td>
<td>88</td>
</tr>
<tr>
<td>L570 ISOLATE SWEEP GENERATING CIRCUIT MALFUNCTIONS</td>
<td>88</td>
</tr>
<tr>
<td>L564 ISOLATE CRT DEFLECTION CIRCUIT MALFUNCTIONS</td>
<td>88</td>
</tr>
<tr>
<td>L582 REMOVE OR REPLACE CURSOR CIRCUIT COMPONENTS</td>
<td>88</td>
</tr>
<tr>
<td>G377 REMOVE OR REPLACE SOLID-STATE DEVICES</td>
<td>88</td>
</tr>
<tr>
<td>G375 REMOVE OR REPLACE ELECTRONIC CHASSIS</td>
<td>88</td>
</tr>
<tr>
<td>G371 READ AND INTERPRET EQUIPMENT TECHNICAL MANUALS</td>
<td>77</td>
</tr>
</tbody>
</table>
TABLE A11

GROUP ID NUMBER AND TITLE: GRP270 - WEAPONS RANGE RADAR REPAIRMEN

NUMBER IN GROUP: 11  PERCENT OF CLUSTER: 16%

MAJCOM DISTRIBUTION: TAC (73%), PACAF (27%)

LOCATION: CONUS (64%), OVERSEAS (36%)

DAFSC DISTRIBUTION: 30332 (64%), 30352 (36%)

AVERAGE GRADE: E-3  AVERAGE MONTHS IN SERVICE: 35

AVERAGE MONTHS IN CAREER FIELD: 31

GROUP DIFFERENTIATING TASKS

<table>
<thead>
<tr>
<th>TASK DESCRIPTION</th>
<th>PERCENT MEMBERS PERFORMING</th>
</tr>
</thead>
<tbody>
<tr>
<td>G361 PERFORM GENERAL HOUSEKEEPING PROCEDURES</td>
<td>100</td>
</tr>
<tr>
<td>G373 REMOVE OR REPLACE CIRCUIT BOARDS OR CARDS</td>
<td>100</td>
</tr>
<tr>
<td>G374 REMOVE OR REPLACE DISCRETE ELECTRONIC COMPONENTS, SUCH AS TUBES, RESISTORS,</td>
<td>100</td>
</tr>
<tr>
<td>CAPACITORS, OR RELAYS</td>
<td></td>
</tr>
<tr>
<td>E235 MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)</td>
<td>100</td>
</tr>
<tr>
<td>G372 REMOVE OR REPLACE CABLES</td>
<td>100</td>
</tr>
<tr>
<td>L558 ADJUST RANGE STROBE CIRCUITS</td>
<td>100</td>
</tr>
<tr>
<td>G343 ADJUST POWER SUPPLIES OTHER THAN SOLID-STATE POWER SUPPLIES</td>
<td>100</td>
</tr>
<tr>
<td>L575 PERFORM PLAN POSITION INDICATOR (PPI) OPERATIONAL CHECKS</td>
<td>90</td>
</tr>
<tr>
<td>F283 COMPLETE AF FORMS 2005 (ISSUE/TURN IN REQUEST)</td>
<td>90</td>
</tr>
<tr>
<td>G371 READ AND INTERPRET EQUIPMENT TECHNICAL MANUALS</td>
<td>90</td>
</tr>
<tr>
<td>G360 PERFORM FACILITIES MAINTENANCE, SUCH AS PAINTING BUILDINGS</td>
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<td>L552 ADJUST CURSOR CIRCUITS</td>
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<td>L559 ADJUST SWEEP GENERATING CIRCUITS</td>
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<td>G359 PERFORM CORROSION CONTROL</td>
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<td>G368 PERFORM POWER SUPPLY OPERATIONAL CHECKS</td>
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<td>G377 REMOVE OR REPLACE SOLID-STATE DEVICES</td>
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<tr>
<td>E236 MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAGS)</td>
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<td>L551 ADJUST CRT PROTECTION CIRCUITS</td>
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<td>E200 LOCATE INFORMATION IN TECHNICAL, STANDARD, OR SUPPLY PUBLICATIONS</td>
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<td>L557 ADJUST RANGE MARK CIRCUITS</td>
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<td>F330 RESEARCH MICROFICHE FILES FOR SUPPLY REQUISITION DATA</td>
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<td>H385 ADJUST MODULATORS</td>
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<td>G370 PERFORM SYSTEM GROUNDING CHECKS</td>
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<td>H414 REMOVE OR REPLACE MODULATOR COMPONENTS</td>
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<td>L579 REMOVE OR REPLACE CRT</td>
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<td>C362 PERFORM GENERAL SOLDERING, OTHER THAN PRINTED CIRCUIT BOARDS</td>
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<td>L550 ADJUST CATHODE RAY TUBE (CRT) DEFLECTION CIRCUITS</td>
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<td>G375 REMOVE OR REPLACE ELECTRONIC CHASSIS</td>
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<td>G367 PERFORM POWER DISTRIBUTION SYSTEM OPERATIONAL CHECKS</td>
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A11
TABLE A10

GROUP ID NUMBER AND TITLE: GRP237 - ELECTRIC COMBAT RANGE RADAR REPAIRMEN
NUMBER IN GROUP: 9  PERCENT OF CLUSTER: 13%
MAJCOM DISTRIBUTION: TAC (67%), PACAF (22%), AFCC (11%)
LOCATION: CONUS (78%), OVERSEAS (22%)
DAFSC DISTRIBUTION: 30332 (78%), 30352 (22%)
AVERAGE GRADE: E-3  AVERAGE MONTHS IN SERVICE: 32
AVERAGE MONTHS IN CAREER FIELD: 29

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<th>GROUP DIFFERENTIATING TASKS</th>
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<td>L551 ADJUST CRT PROTECTION CIRCUITS</td>
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<tr>
<td>G359 PERFORM CORROSION CONTROL</td>
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<td>G368 PERFORM POWER SUPPLY OPERATIONAL CHECKS</td>
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<tr>
<td>G371 READ AND INTERPRET EQUIPMENT TECHNICAL MANUALS</td>
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<td>L557 ADJUST RANGE MARK CIRCUITS</td>
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<tr>
<td>L558 ADJUST RANGE STROBE CIRCUITS</td>
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<td>C372 REMOVE OR REPLACE CABLES</td>
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<td>E236 MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAGS)</td>
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<td>G360 PERFORM FACILITIES MAINTENANCE, SUCH AS PAINTING BUILDINGS</td>
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<tr>
<td>C125 PERFORM CORROSION CONTROL INSPECTIONS</td>
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<td>L575 PERFORM PLAN POSITION INDICATOR (PPI) OPERATIONAL CHECKS</td>
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<td>C127 PERFORM EQUIPMENT INSPECTIONS</td>
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<td>G362 PERFORM GENERAL SOLDERING, OTHER THAN PRINTED CIRCUIT BOARDS</td>
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<td>G343 ADJUST POWER SUPPLIES OTHER THAN SOLID-STATE POWER SUPPLIES</td>
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<td>L550 ADJUST CATHODE RAY TUBE (CRT) DEFLECTION CIRCUITS</td>
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<td>I439 LUBRIFICATE ANTENNA SYSTEM COMPONENTS</td>
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<td>G349 FABRICATE COAXIAL CABLES</td>
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<td>G374 REMOVE OR REPLACE DISCRETE ELECTRONIC COMPONENTS, SUCH AS TUBES, RESISTORS, CAPACITORS, OR RELAYS</td>
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<td>F283 COMPLETE AF FORMS 2005 (ISSUE/TURN IN REQUEST)</td>
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<td>G373 REMOVE OR REPLACE CIRCUIT BOARDS OR CARDS</td>
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<td>G344 ADJUST SOLID-STATE POWER SUPPLIES</td>
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<td>G367 PERFORM POWER DISTRIBUTION SYSTEM OPERATIONAL CHECKS</td>
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<td>K529 PERFORM RADAR RECEIVING SYSTEM OPERATIONAL CHECKS USING CONVENTIONAL TEST EQUIPMENT</td>
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<td>N636 PERFORM SIF SYSTEM OPERATIONAL CHECKS</td>
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<td>G342 ADJUST INTERLOCK PROTECTIVE CIRCUITS</td>
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TABLE A9

GROUP ID NUMBER AND TITLE: GRP083 - JUNIOR AC&W RADAR MAINTENANCE PERSONNEL
NUMBER IN GROUP: 67 PERCENT OF SAMPLE: 9%
MAJCOM DISTRIBUTION: TAC (66%), AFCC (27%), PACAF (7%)
LOCATION: CONUS (87%), OVERSEAS (13%)
DAFSC DISTRIBUTION: 30332 (48%) 30352 (52%)
AVERAGE GRADE: E-3 AVERAGE MONTHS IN SERVICE: 28
AVERAGE MONTHS IN CAREER FIELD: 25

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<td>G361 PERFORM GENERAL HOUSEKEEPING PROCEDURES</td>
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<tr>
<td>G374 REMOVE OR REPLACE DISCRETE ELECTRONIC COMPONENTS, SUCH AS TUBES, RESISTORS, CAPACITORS, OR RELAYS</td>
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<tr>
<td>G362 PERFORM GENERAL SOLDERING, OTHER THAN PRINTED CIRCUIT BOARDS</td>
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<tr>
<td>G368 PERFORM POWER SUPPLY OPERATIONAL CHECKS</td>
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<td>G371 READ AND INTERPRET EQUIPMENT TECHNICAL MANUALS</td>
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<td>G349 FABRICATE COAXIAL CABLES</td>
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<td>G343 ADJUST POWER SUPPLIES OTHER THAN SOLID-STATE POWER SUPPLIES</td>
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<td>F283 COMPLETE AF FORMS 2005 (ISSUE/TURN IN REQUEST)</td>
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<td>G360 PERFORM FACILITIES MAINTENANCE, SUCH AS PAINTING BUILDINGS</td>
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<tr>
<td>G373 REMOVE OR REPLACE CIRCUIT BOARDS OR CARDS</td>
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<tr>
<td>L575 PERFORM PLAN POSITION INDICATOR (PPI) OPERATIONAL CHECKS</td>
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<td>L557 ADJUST RANGE MARK CIRCUITS</td>
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<td>I439 LUBRICATE ANTENNA SYSTEM COMPONENTS</td>
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<td>L558 ADJUST RANGE STROBE CIRCUITS</td>
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<td>G381 TORQUE MISCELLANEOUS HARDWARE, SUCH AS SCREWS OR BOLTS</td>
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<td>L551 ADJUST CRT PROTECTION CIRCUITS</td>
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<td>G357 ISOLATE POWER SUPPLY MALFUNCTIONS OTHER THAN SOLID-STATE</td>
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<td>E200 LOCATE INFORMATION IN TECHNICAL, STANDARD, OR SUPPLY PUBLICATIONS</td>
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<td>H410 PERFORM RADAR TRANSMITTER OPERATIONAL CHECKS</td>
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<td>G379 TERMINATE CABLES</td>
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<td>H393 ADJUST TRANSMITTER POWER SUPPLIES</td>
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### TABLE A8

**GROUP ID NUMBER AND TITLE:** GRP161 - AC&W PROGRAM MANAGERS  

**NUMBER IN GROUP:** 5  
**PERCENT OF SAMPLE:** 1%  

**MAJCOM DISTRIBUTION:** TAC (40%), USAFE (40%), AFCC (20%)  

**LOCATION:** CONUS: (40%), OVERSEAS (60%)  

**DAFSC DISTRIBUTION:** 30372 (100%)  

**AVERAGE GRADE:** E-7  
**AVERAGE MONTHS IN SERVICE:** 216  
**AVERAGE MONTHS IN CAREER FIELD:** 175

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<td>B50 COMPILATE INFORMATION FOR REPORTS OR STAFF STUDIES</td>
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<td>E267 REVIEW CORRESPONDENCE</td>
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<td>C103 EVALUATE MATERIAL DEFICIENCY REPORTS (MDR)</td>
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<td>A38 REVIEW DRAFTS OF REGULATIONS, MANUALS, OR OTHER DIRECTIVES</td>
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<td>C112 EVALUATE TECHNICAL ORDER IMPROVEMENT REPORTS</td>
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<td>C106 EVALUATE QUALITY CONTROL PROCEDURES</td>
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<td>C143 WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS, OTHER THAN TRAINING REPORTS</td>
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<td>C88 CONDUCT STAFF ASSISTANCE VISITS</td>
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<td>C102 EVALUATE MAINTENANCE PRODUCTION REPORTS</td>
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<td>C85 ANALYZE TRENDS IN SYSTEM MALFUNCTIONS</td>
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<td>C111 EVALUATE TECHNICAL LITERATURE DEFICIENCY REPORTS</td>
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<td>B78 PREPARE MODIFICATION PROPOSALS</td>
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<td>E273 REVIEW TIME COMPLIANCE TECHNICAL ORDERS (TCTO)</td>
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<td>E271 REVIEW MAINTENANCE OR INSPECTION REPORTS</td>
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<td>A23 ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (OI), OR STANDARD OPERATING PROCEDURES (SOP)</td>
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<td>B73 INITIATE FOLLOW-UP ACTIONS ON WORK IN PROGRESS</td>
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<td>C124 PERFORM ACTIVITY INSPECTIONS</td>
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<td>B51 CONDUCT BRIEFINGS</td>
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<td>E270 REVIEW MAINTENANCE MANAGEMENT INFORMATION CONTROL SYSTEMS (MMICS) OUTPUT DATA</td>
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<td>C110 EVALUATE SUGGESTIONS</td>
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<td>E232 MAKE ENTRIES ON AFTO FORMS 22 (TECHNICAL ORDER SYSTEM PUBLICATION IMPROVEMENT REPORT AND REPLY)</td>
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<td>C100 EVALUATE MAINTENANCE DATA COLLECTION (MDC) REPORTS</td>
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TABLE A7

GROUP ID NUMBER AND TITLE: GRP275 - QUALITY CONTROL INSPECTORS
NUMBER IN GROUP: 33 PERCENT OF SAMPLE: 4%
MAJCOM DISTRIBUTION: TAC (64%), USAFE (24%), PACAF (9%), OTHER (3%)
LOCATION: CONUS (58%), OVERSEAS (42%)
DAFSC DISTRIBUTION: 30352 (12%), 30372 (88%)
AVERAGE GRADE: E-6 AVERAGE MONTHS IN SERVICE: 202
AVERAGE MONTHS IN CAREER FIELD: 185

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<td>E225 MAKE ENTRIES ON AF FORMS 2419 (ROUTING AND REVIEW OF QUALITY CONTROL REPORTS)</td>
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<td>E226 MAKE ENTRIES ON AF FORMS 2420 (QUALITY CONTROL INSPECTION SUMMARY)</td>
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<td>C112 EVALUATE TECHNICAL ORDER IMPROVEMENT REPORTS</td>
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<td>C87 CONDUCT MAINTENANCE INSPECTIONS</td>
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<td>C113 EVALUATE TECHNICAL PERFORMANCE OF PERSONNEL</td>
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<td>C132 PERFORM PERSONNEL PROFICIENCY EVALUATIONS</td>
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<td>C133 PERFORM QUALITY ASSURANCE CHECKS</td>
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<td>E229 MAKE ENTRIES ON AFTO FORMS 110 AND 110A (TECHNICAL ORDER DISTRIBUTION RECORD)</td>
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<td>E230 MAKE ENTRIES ON AFTO FORMS 131 (TECHNICAL ORDER INDEX ROUTINE AND ANNUAL CHECK)</td>
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<td>C99 EVALUATE INSPECTION OR MAINTENANCE REPORTS</td>
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<td>E272 REVIEW TECHNICAL ORDERS (TO)</td>
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<td>C95 EVALUATE CORROSION CONTROL PROGRAMS</td>
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<td>E185 COMPLETE MATERIEL DEFICIENCY REPORTS (MDR)</td>
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<td>E258 PREPARE QUALITY CONTROL DISCREPANCY REPORTS</td>
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<td>E271 REVIEW MAINTENANCE OR INSPECTIONS REPORTS</td>
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<td>C106 EVALUATE QUALITY CONTROL PROCEDURES</td>
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<td>E224 MAKE ENTRIES ON AF FORMS 2415 (QUALITY CONTROL CHECKSHEET)</td>
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<td>C103 EVALUATE MATERIEL DEFICIENCY REPORTS (MDR)</td>
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<td>C126 PERFORM DEFICIENCY INSPECTIONS</td>
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TABLE A6

GROUP ID NUMBER AND TITLE: GRP231 - INSTRUCTOR SUPERVISORS

NUMBER IN GROUP: 5

PERCENT OF CLUSTER: 5%

MAJCOM DISTRIBUTION: ATC (100%)

LOCATION: CONUS (100%)

DAFSC DISTRIBUTION: 30352 (20%), 30372 (80%)

AVERAGE GRADE: E-6

AVERAGE MONTHS IN SERVICE: 202

AVERAGE MONTHS IN CAREER FIELD: 197

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<td>D152 CONDUCT TECHNICAL SCHOOL CLASSROOM TRAINING</td>
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<td>D169 EVALUATE PROGRESS OF TECHNICAL SCHOOL STUDENTS</td>
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<td>D144 ADMINISTER OR SCORE TESTS</td>
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<td>D170 EVALUATE TRAINING METHODS OR TECHNIQUES</td>
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<td>C140 WRITE APR</td>
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<td>B80 SUPERVISE AC&amp;W RADAR SPECIALISTS (AFSC 30352)</td>
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<tr>
<td>B79 SUPERVISE AIRCRAFT CONTROL AND WARNING (AC&amp;W) RADAR TECHNICIANS (AFSC 30372)</td>
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<tr>
<td>B84 WRITE CORRESPONDENCE OR MESSAGES</td>
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<tr>
<td>D161 DEVELOP PERFORMANCE TESTS</td>
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<tr>
<td>D147 ASSIGN TECHNICAL SCHOOL INSTRUCTORS</td>
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<tr>
<td>E272 REVIEW TECHNICAL ORDERS (TO)</td>
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<tr>
<td>D154 COUNSEL TRAINEES ON TRAINING PROGRESS</td>
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<tr>
<td>C120 INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS</td>
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</tr>
<tr>
<td>D148 BRIEF PERSONNEL ON TRAINING METHODS OR PROCEDURES</td>
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<tr>
<td>B59 COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED PROBLEMS</td>
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GROUP ID NUMBER AND TITLE: GRP229 - NCOICs, JOB CONTROL

NUMBER IN GROUP: 7

PERCENT OF CLUSTER: 7%

MAJCOM DISTRIBUTION: TAC (71%), AFCC (29%)

LOCATION: CONUS (100%)

DAFSC DISTRIBUTION: 30372 (100%)

AVERAGE GRADE: E-6

AVERAGE MONTHS IN SERVICE: 175

AVERAGE MONTHS IN CAREER FIELD: 172

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<thead>
<tr>
<th>GROUP DIFFERENTIATING TASKS</th>
<th>PERCENT MEMBERS PERFORMING</th>
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<tbody>
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<td>A27 PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS</td>
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<tr>
<td>B83 SUPERVISE MILITARY PERSONNEL IN CAREER FIELDS OTHER THAN AFS 303X2</td>
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<td>E215 MAINTAIN STATUS BOARDS OR JOB CONTROL BOARDS</td>
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<tr>
<td>B61 DIRECT DEVELOPMENT OR MAINTENANCE OF STATUS BOARDS, GRAPHS, OR CHARTS</td>
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<tr>
<td>A24 ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES</td>
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<tr>
<td>B84 WRITE CORRESPONDENCE OR MESSAGES</td>
<td>100</td>
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<tr>
<td>B73 INITIATE FOLLOW-UP ACTIONS ON WORK IN PROGRESS</td>
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<td>B75 INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES</td>
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<tr>
<td>A15 DEVELOP WORK METHODS OR PROCEDURES</td>
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<tr>
<td>E267 REVIEW CORRESPONDENCE</td>
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<tr>
<td>C120 INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS</td>
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</tr>
<tr>
<td>A26 ESTABLISH WORK SCHEDULES</td>
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<tr>
<td>B59 COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED PROBLEMS</td>
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<td>C140 WRITE APR</td>
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<td>A42 SCHEDULE LEAVES OR PASSES</td>
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<tr>
<td>B77 ORIENT NEWLY ASSIGNED PERSONNEL</td>
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<td>A23 ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (01), OR STANDARD OPERATING PROCEDURES (SOP)</td>
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<td>A8 DETERMINE WORK PRIORITIES</td>
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<tr>
<td>B45 ADJUST DAILY MAINTENANCE PLANS TO MEET OPERATIONAL COMMITMENTS</td>
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<td>B51 CONDUCT BRIEFINGS</td>
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<tr>
<td>B80 SUPERVISE AC&amp;W RADAR SPECIALISTS (AFSC 30352)</td>
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<tr>
<td>C118 INDORSE AIRMAN PERFORMANCE REPORTS (APR)</td>
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<tr>
<td>A1 ASSIGN PERSONNEL TO DUTY POSITIONS</td>
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<tr>
<td>D149 CONDUCT OJT</td>
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<tr>
<td>E189 DOCUMENT CANNIBALIZATION</td>
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<tr>
<td>C98 EVALUATE INDIVIDUALS FOR PROMOTION, DEMOTION, OR RECLASSIFICATION</td>
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<tr>
<td>E227 MAKE ENTRIES ON AF FORMS 2446 (SCHEDULE OF TECHNICIAN AVAILABILITY)</td>
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TABLE A4

GROUP ID NUMBER AND TITLE: GRP201 - NCOICs, ANCILLARY MAINTENANCE
NUMBER IN GROUP: 6 PERCENT OF CLUSTER: 6%
MAJCOM DISTRIBUTION: TAC (67%), AFCC (33%)
LOCATION: CONUS (17%), OVERSEAS (83%)
DAFSC DISTRIBUTION: 30352 (83%), 30372 (17%)
AVERAGE GRADE: E-4 AVERAGE MONTHS IN SERVICE: 87
AVERAGE MONTHS IN CAREER FIELD: 82

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<thead>
<tr>
<th>GROUP DIFFERENTIATING TASKS</th>
<th>PERCENT MEMBERS PERFORMING</th>
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<td>F333 REVIEW STATUS OF AWAITING MAINTENANCE (AWM) PARTS</td>
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<tr>
<td>F283 COMPLETE AF FORMS 2005 (ISSUE/TURN IN REQUEST)</td>
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<tr>
<td>L575 PERFORM PLAN POSITION INDICATOR (PPI) OPERATIONAL CHECKS</td>
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<tr>
<td>F334 REVIEW STATUS OF AWAITING PARTS (AWP) EQUIPMENT</td>
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<td>A27 PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS</td>
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<tr>
<td>G374 REMOVE OR REPLACE DISCRETE ELECTRONIC COMPONENTS, SUCH AS TUBES, RESISTORS, CAPACITORS, OR RELAYS</td>
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<tr>
<td>E235 MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)</td>
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<tr>
<td>E236 MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAGS)</td>
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<tr>
<td>G373 REMOVE OR REPLACE CIRCUIT BOARDS OR CARDS</td>
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<tr>
<td>F291 ESTIMATE OR VALIDATE BENCH STOCK REQUIREMENTS</td>
<td>100</td>
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<tr>
<td>E207 MAINTAIN HISTORICAL RECORDS</td>
<td>100</td>
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<tr>
<td>G349 FABRICATE COAXIAL CABLES</td>
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<tr>
<td>G362 PERFORM GENERAL SOLDERING, OTHER THAN PRINTED CIRCUIT BOARDS</td>
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<tr>
<td>G343 ADJUST POWER SUPPLIES OTHER THAN SOLID-STATE POWER SUPPLIES</td>
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<tr>
<td>G372 REMOVE OR REPLACE CABLES</td>
<td>100</td>
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<tr>
<td>F281 ATTACH OR ANNOTATE EQUIPMENT STATUS LABELS OR TAGS, SUCH AS DD FORMS 1574 (SERVICEABLE TAG-MATERIAL)</td>
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<tr>
<td>E268 REVIEW DUE IN FROM MAINTENANCE (DIFM) RUNS</td>
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<td>L550 ADJUST CATHODE RAY TUBE (CRT) DEFLECTION CIRCUITS</td>
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<td>F300 INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES</td>
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<td>G357 ISOLATE POWER SUPPLY MALFUNCTIONS OTHER THAN SOLID-STATE</td>
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<td>F299 INVENTORY BENCH STOCK ITEMS</td>
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<td>L589 REMOVE OR REPLACE VIDEO AMPLIFIER CIRCUIT COMPONENTS</td>
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<td>B56 COORDINATE MAINTENANCE SCHEDULES WITH JOB CONTROL</td>
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<tr>
<td>C127 PERFORM EQUIPMENT INSPECTIONS</td>
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<td>E219 MAINTAIN TECHNICAL ORDER FILES</td>
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<td>C125 PERFORM CORROSION CONTROL INSPECTIONS</td>
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<tr>
<td>C120 INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS</td>
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<td>L559 ADJUST SWEEP GENERATING CIRCUITS</td>
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<td>G359 PERFORM CORROSION CONTROL</td>
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A4
TABLE A3

GROUP ID NUMBER AND TITLE: GRP218 - NCOICs, TACTICAL RADAR MAINTENANCE
NUMBER IN GROUP: 18
PERCENT OF CLUSTER: 19%
MAJCOM DISTRIBUTION: TAC (44%), USAFE (39%), PACAF (11%), OTHER (6%)
LOCATION: CONUS (50%), OVERSEAS (50%)
DAFSC DISTRIBUTION: 30352 (28%), 30372 (72%)
AVERAGE GRADE: E-5, E-6
AVERAGE MONTHS IN SERVICE: 175
AVERAGE MONTHS IN CAREER FIELD: 161

GROUP DIFFERENTIATING TASKS

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<thead>
<tr>
<th>Task Description</th>
<th>Percent Members Performing</th>
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<td>C138 REVIEW MAINTENANCE DATA COLLECTION (MDC) FORMS</td>
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<tr>
<td>C120 INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS</td>
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<tr>
<td>F333 REVIEW STATUS OF AWAITING MAINTENANCE (AWM) PARTS</td>
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<tr>
<td>C140 WRITE APR</td>
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<tr>
<td>D155 DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION</td>
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<td>A27 PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS</td>
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<tr>
<td>B59 COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED PROBLEMS</td>
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<tr>
<td>B75 INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES</td>
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<tr>
<td>F334 REVIEW STATUS OF AWAITING PARTS (AWP) EQUIPMENT</td>
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<td>F283 COMPLETE AF FORMS 2005 (ISSUE/TURN IN REQUEST)</td>
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<td>E200 LOCATE INFORMATION IN TECHNICAL, STANDARD, OR SUPPLY PUBLICATIONS</td>
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<tr>
<td>D154 COUNSEL TRAINEES ON TRAINING PROGRESS</td>
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<td>A8 DETERMINE WORK PRIORITIES</td>
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<td>B56 COORDINATE MAINTENANCE SCHEDULES WITH JOB CONTROL</td>
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<tr>
<td>D172 MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS</td>
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<tr>
<td>C139 REVIEW SUPPLY OR EQUIPMENT INVENTORIES</td>
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<tr>
<td>F282 CERTIFY STATUS OR REPARABLE, SERVICEABLE, OR CONDEMNED PARTS</td>
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<tr>
<td>C136 PERFORM VEHICLE INSPECTIONS</td>
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<tr>
<td>C134 PERFORM SELF-INSPECTIONS</td>
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<td>A26 ESTABLISH WORK SCHEDULES</td>
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<tr>
<td>C142 WRITE RECOMMENDATIONS FOR AWARDS OR DECORATIONS</td>
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<tr>
<td>E239 MAKE ENTRIES ON AFTO FORMS 95 (SIGNIFICANT HISTORICAL DATA)</td>
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<td>E191 EDIT AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)</td>
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<td>C127 PERFORM EQUIPMENT INSPECTIONS</td>
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<td>C93 EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS</td>
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<td>B45 ADJUST DAILY MAINTENANCE PLANS TO MEET OPERATIONAL COMMITMENTS</td>
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<tr>
<td>F335 REVIEW SUPPLY DAILY DOCUMENT REGISTERS (D04/804-11)</td>
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<td>E235 MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)</td>
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<tr>
<td>F332 REVIEW PRIORITY MONITOR REPORTS (D18/820-50)</td>
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<td>B73 INITIATE FOLLOW-UP ACTIONS ON WORK IN PROGRESS</td>
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**TABLE A2**

| GROUP ID NUMBER AND TITLE: GRP190 - NCOICs, FIXED RADAR MAINTENANCE |
|---------------------------|---------------------------------------------------------------|
| NUMBER IN GROUP:          | 28                                                            |
| PERCENT OF CLUSTER:       | 29%                                                           |
| MAJCOM DISTRIBUTION:      | TAC (79%), AFCC (18%), OTHER (3%)                             |
| LOCATION:                 | CONUS (75%), OVERSEAS (25%)                                   |
| DAFSC DISTRIBUTION:       | 30352 (4%), 30372 (96%)                                       |
| AVERAGE GRADE:            | E-6                                                           |
| AVERAGE MONTHS IN SERVICE:| 209                                                           |
| AVERAGE MONTHS IN CAREER FIELD: | 197            |

**GROUP DIFFERENTIATING TASKS**

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<tr>
<th>TASK DESCRIPTION</th>
<th>PERCENT MEMBERS PERFORMING</th>
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<td>B80 SUPervise AC&amp;W radar specialists (AFSC 30352)</td>
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<tr>
<td>C140 WRITE APR</td>
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<td>B59 COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED PROBLEMS</td>
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<tr>
<td>C134 PERFORM SELF-INSPECTIONS</td>
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<tr>
<td>C142 WRITE RECOMMENDATIONS FOR AWARDS OR DECORATIONS</td>
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<tr>
<td>A8 DETERMINE WORK PRIORITIES</td>
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<tr>
<td>C138 REVIEW MAINTENANCE DATA COLLECTION (MDC) FORMS</td>
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<td>A26 ESTABLISH WORK SCHEDULES</td>
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<td>D146 ASSIGN ON-THE-JOB TRAINING (OJT) TRAINERS</td>
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<tr>
<td>F335 REVIEW SUPPLY DAILY DOCUMENT REGISTERS (D04/804-11)</td>
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<td>B77 ORIENT NEWLY ASSIGNED PERSONNEL</td>
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<td>E207 MAINTAIN HISTORICAL RECORDS</td>
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<td>B84 WRITE CORRESPONDENCE OR MESSAGES</td>
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<tr>
<td>A42 SCHEDULE LEAVES OR PASSES</td>
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<tr>
<td>E227 MAKE ENTRIES ON AF FORMS 2446 (SCHEDULE OF TECHNICIAN AVAILABILITY)</td>
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<tr>
<td>F333 REVIEW STATUS OF AWAITING MAINTENANCE (AWM) PARTS</td>
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<tr>
<td>B81 SUPERVISE APPRENTICE AC&amp;W radar specialists (30332)</td>
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<tr>
<td>C120 INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS</td>
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</tr>
<tr>
<td>A44 SCHEDULE WORK ASSIGNMENTS AND PRIORITIES</td>
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<tr>
<td>D154 COUNSEL TRAINEES ON TRAINING PROGRESS</td>
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<tr>
<td>F332 REVIEW PRIORITY MONITOR REPORTS (D18/820-50)</td>
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<tr>
<td>E225 MAKE ENTRIES ON AF FORMS 2419 (ROUTING AND REVIEW OF QUALITY CONTROL REPORTS)</td>
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<tr>
<td>E239 MAKE ENTRIES ON AFTO FORMS 95 (SIGNIFICANT HISTORICAL DATA)</td>
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<tr>
<td>A2 ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL</td>
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<tr>
<td>F312 MAKE ENTRIES ON AF FORMS 1297 (TEMPORARY ISSUE RECEIPT)</td>
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<tr>
<td>D172 MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS</td>
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<tr>
<td>D156 DETERMINE OJT TRAINING REQUIREMENTS</td>
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<tr>
<td>E191 EDIT AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)</td>
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<tr>
<td>D155 DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION</td>
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<tr>
<td>F281 ATTACH OR ANNOTATE EQUIPMENT STATUS LABELS OR TAGS, SUCH AS DD FORMS 1574 (SERVICEABLE TAG-MATERIEL)</td>
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</table>
**TABLE A1**

GROUP ID NUMBER AND TITLE: GRP071 - RADAR MAINTENANCE SUPERVISORS

NUMBER IN GROUP: 96  PERCENT OF SAMPLE: 13%

MAJCOM DISTRIBUTION: TAC (52%), AFCC (17%), USAFE (15%), PACAF (7%),
OTHER (9%)

CONUS LOCATION: CONUS (67%), OVERSEAS (33%)

DAFSC DISTRIBUTION: 30332 (2%), 30352 (27%), 30372 (71%)

AVERAGE GRADE: E-6  AVERAGE MONTHS IN SERVICE: 170

AVERAGE MONTHS IN CAREER FIELD: 157

<table>
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<tr>
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<th>PERCENT MEMBERS PERFORMING</th>
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<td>A8  DETERMINE WORK PRIORITIES</td>
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<td>A27 PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS</td>
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<td>C140 WRITE APR</td>
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<td>B59 COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED PROBLEMS</td>
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<tr>
<td>C120 INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS</td>
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<td>B77 ORIENT NEWLY ASSIGNED PERSONNEL</td>
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<td>C134 PERFORM SELF-INSPECTIONS</td>
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<td>B84 WRITE CORRESPONDENCE OR MESSAGES</td>
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<tr>
<td>B80 SUPERVISE AC&amp;W RADAR SPECIALISTS (AFSC 30352)</td>
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<tr>
<td>B73 INITIATE FOLLOW-UP ACTIONS ON WORK IN PROGRESS</td>
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<td>A26 ESTABLISH WORK SCHEDULES</td>
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<td>D172 MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS</td>
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<td>A42 SCHEDULE LEAVES OR PASSES</td>
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<td>B75 INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES</td>
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<td>C138 REVIEW MAINTENANCE DATA COLLECTION (MDC) FORMS</td>
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<td>D155 DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION</td>
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<td>C142 WRITE RECOMMENDATIONS FOR AWARDS OR DECORATIONS</td>
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<td>A24 ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES</td>
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<td>E200 LOCATE INFORMATION IN TECHNICAL STANDARD, OR SUPPLY PUBLICATIONS</td>
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<td>B45 ADJUST DAILY MAINTENANCE PLANS TO MEET OPERATIONAL COMMITMENTS</td>
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<td>D154 COUNSEL TRAINEES ON TRAINING PROGRESS</td>
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<td>F334 REVIEW STATUS OF AWAITING PARTS (AWP) EQUIPMENT</td>
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<td>F333 REVIEW STATUS OF AWAITING MAINTENANCE (AWM) PARTS</td>
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<td>A44 SCHEDULE WORK ASSIGNMENTS AND PRIORITIES</td>
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<td>F312 MAKE ENTRIES ON AF FORMS 1297 (TEMPORARY ISSUE RECEIPT)</td>
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<td>E235 MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)</td>
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<td>F335 REVIEW SUPPLY DAILY DOCUMENT REGISTERS (D04/804-11)</td>
<td>64</td>
</tr>
<tr>
<td>E227 MAKE ENTRIES ON AF FORMS 2446 (SCHEDULE OF TECHNICIAN AVAILABILITY)</td>
<td>63</td>
</tr>
<tr>
<td>F330 RESEARCH MICROFICHE FILES FOR SUPPLY REQUISITION DATA</td>
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</tr>
<tr>
<td>E191 EDIT AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)</td>
<td>62</td>
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</tbody>
</table>
APPENDIX A
IMPLICATIONS

This survey was conducted primarily to provide technical training personnel with current information on the Aircraft Control and Warning Radar maintenance specialty for use in evaluating the 303X2 STS and entry-level POI. In comparing the current and previous surveys, the most significant change in the 303X2 career ladder is in the structure of the ladder; that is, the specialty jobs identified and the numbers of respondents performing those jobs. In the current survey, two large clusters (of equal size) were identified as journeyman AC&W radar repairmen, one of fixed radar, the other of tactical or mobile radar. In the previous survey, the tactical radar repairmen were a relatively smaller percent of the survey sample (13 percent versus 21 percent in the current study). This shift in career ladder jobs is due to increased employment of the AN/TPS-43E, state-of-the-art, lightweight 3-D surveillance radar.

The current 30332 POI was implemented since the last survey and was developed to support the AN/TPS-43E. The POI was well supported by survey data, although a review of tasks not matched to the POI is required based on percent members performing certain of those tasks. Thirty-six percent of first-enlistment personnel performed maintenance on the TPS-43E, only two other systems were maintained by over 10 percent of the first-enlistment group. Eleven percent responded they maintained either the FPS-91 or FPS-116 fixed radars.

A review of job satisfaction reveals several interesting trends. First, present 303X2 incumbents appear much more satisfied with their jobs than those in the previous survey. Second, perceived utilization of training is very good for fixed and tactical radar maintenance personnel. Finally, job satisfaction varies across the major job groups identified in the career ladder structure, with Job Controllers and Engineering Installation Team Members being very dissatisfied with their jobs. Managers and supervisors need to be aware of these dissatisfying jobs, and try to find ways to improve them.
TABLE A13

GROUP ID NUMBER AND TITLE: GRP314 - SIF REPAIRMEN

NUMBER IN GROUP: 6  PERCENT OF CLUSTER: 9%
MAJCOM DISTRIBUTION: AFCC (100%)
LOCATION: CONUS (100%)
DAFSC DISTRIBUTION: 30332 (17%), 30352 (83%)
AVERAGE GRADE: E-3, E-4  AVERAGE MONTHS IN SERVICE: 36
AVERAGE MONTHS IN CAREER FIELD: 17

<table>
<thead>
<tr>
<th>GROUP DIFFERENTIATING TASKS</th>
<th>PERCENT MEMBERS PERFORMING</th>
</tr>
</thead>
<tbody>
<tr>
<td>N616 ADJUST SOLID-STATE SIF CODERS</td>
<td>100</td>
</tr>
<tr>
<td>N617 ADJUST SOLID-STATE SIF DECODERS</td>
<td>100</td>
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<tr>
<td>N631 ISOLATE TUBE-TYPE INTERROGATOR-RESPONDER MALFUNCTIONS</td>
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</tr>
<tr>
<td>G373 REMOVE OR REPLACE CIRCUIT BOARDS OR CARDS</td>
<td>100</td>
</tr>
<tr>
<td>E235 MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)</td>
<td>100</td>
</tr>
<tr>
<td>H410 PERFORM RADAR TRANSMITTER OPERATIONAL CHECKS</td>
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</tr>
<tr>
<td>G374 REMOVE OR REPLACE DISCRETE ELECTRONIC COMPONENTS, SUCH AS TUBES, RESISTORS, CAPACITORS, OR RELAYS</td>
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<tr>
<td>G371 READ AND INTERPRET EQUIPMENT TECHNICAL MANUALS</td>
<td>100</td>
</tr>
<tr>
<td>N611 ADJUST GAIN TIME CONSTANT (GTC) CIRCUITS</td>
<td>100</td>
</tr>
<tr>
<td>G362 PERFORM GENERAL SOLDERING, OTHER THAN PRINTED CIRCUIT BOARDS</td>
<td>100</td>
</tr>
<tr>
<td>G368 PERFORM POWER SUPPLY OPERATIONAL CHECKS</td>
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</tr>
<tr>
<td>G359 PERFORM CORROSION CONTROL</td>
<td>100</td>
</tr>
<tr>
<td>H391 ADJUST TRANSMITTER PERFORMANCE MONITOR CIRCUITS</td>
<td>100</td>
</tr>
<tr>
<td>K500 ADJUST VIDEO AMPLIFIERS</td>
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<tr>
<td>H390 ADJUST TRANSMITTER OUTPUT TUBES</td>
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<tr>
<td>G361 PERFORM GENERAL HOUSEKEEPING PROCEDURES</td>
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</tr>
<tr>
<td>G349 FABRICATE COAXIAL CABLES</td>
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<tr>
<td>E236 MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAGS)</td>
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<tr>
<td>N636 PERFORM SIF SYSTEM OPERATIONAL CHECKS</td>
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<tr>
<td>N618 ADJUST TUBE-TYPE INTERROGATOR-RESPONDERS</td>
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<tr>
<td>N630 ISOLATE SOLID-STATE SIF DECODER MALFUNCTIONS</td>
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<tr>
<td>N629 ISOLATE SOLID-STATE SIF CODER MALFUNCTIONS</td>
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<td>N645 REMOVE OR REPLACE SOLID-STATE SIF CODER COMPONENTS</td>
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<tr>
<td>N646 REMOVE OR REPLACE SOLID-STATE SIF DECODER COMPONENTS</td>
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<td>G344 ADJUST SOLID-STATE POWER SUPPLIES</td>
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<td>E233 MAKE ENTRIES ON AFTO FORMS 244 AND 245 (SYSTEM/EQUIPMENT STATUS RECORD)</td>
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<td>K518 ISOLATE IF AMPLIFIER MALFUNCTIONS</td>
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<td>K495 ADJUST RECEIVER RF AMPLIFIERS</td>
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<td>H422 REMOVE OR REPLACE TRANSMITTER POWER OUTPUT TUBES</td>
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<td>G358 ISOLATE SOLID-STATE POWER SUPPLY MALFUNCTIONS</td>
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<td>Group Differentiating Tasks</td>
<td>Percent Members Performing</td>
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<tr>
<td>-------------------------------------------------------------------------------------------</td>
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<td>L576 PERFORM RHI OPERATIONAL CHECKS</td>
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<td>G345 CALCULATE REFRACTIVE INDEXES</td>
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<td>G360 PERFORM FACILITIES MAINTENANCE, SUCH AS PAINTING BUILDINGS</td>
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<td>E235 MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)</td>
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<tr>
<td>G359 PERFORM CORROSION CONTROL</td>
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<tr>
<td>F283 COMPLETE AF FORMS 2005 ISSUE/TURN IN REQUEST</td>
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<td>G374 REMOVE OR REPLACE DISCRETE ELECTRONIC COMPONENTS, SUCH AS TUBES, RESISTORS, CAPACITORS, OR RELAYS</td>
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<tr>
<td>E236 MAKE ENTRIES ON AFTO FORMS 350 (REPAIRABLE ITEM PROCESSING TAGS)</td>
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<tr>
<td>G362 PERFORM GENERAL SOLDERING, OTHER THAN PRINTED CIRCUIT BOARDS</td>
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<td>K481 ADJUST AUTOMATIC FREQUENCY CONTROL (AFC) CIRCUITS</td>
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<td>I439 LUBRICATE ANTENNA SYSTEM COMPONENTS</td>
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<td>G361 PERFORM GENERAL HOUSEKEEPING PROCEDURES</td>
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<td>H410 PERFORM RADAR TRANSMITTER OPERATIONAL CHECKS</td>
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<tr>
<td>G381 TORQUE MISCELLANEOUS HARDWARE, SUCH AS SCREWS OR BOLTS</td>
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<tr>
<td>G368 PERFORM POWER SUPPLY OPERATIONAL CHECKS</td>
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<tr>
<td>J455 ADJUST WAVE-GUIDE PRESSURIZING SYSTEMS</td>
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<tr>
<td>H409 PERFORM RADAR TRANSMITTER INSULATING OIL CHECKS</td>
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<tr>
<td>G372 REMOVE OR REPLACE CABLES</td>
<td>85</td>
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<tr>
<td>L573 PERFORM HEIGHT FINDER OPERATOR DUTIES, SUCH AS BISECTING HEIGHT TARGETS ON RHI DISPLAYS</td>
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<tr>
<td>G349 FABRICATE COAXIAL CABLES</td>
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<tr>
<td>G343 ADJUST POWER SUPPLIES OTHER THAN SOLID-STATE POWER SUPPLIES</td>
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<tr>
<td>K483 ADJUST CRYSTAL MIXERS</td>
<td>71</td>
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<tr>
<td>L557 ADJUST RANGE MARK CIRCUITS</td>
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<tr>
<td>J471 REMOVE OR REPLACE WAVE-GUIDE PRESSURIZING SYSTEM COMPONENTS</td>
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<tr>
<td>G371 READ AND INTERPRET EQUIPMENT TECHNICAL MANUALS</td>
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<tr>
<td>F300 INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES</td>
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<td>L549 ADJUST ANGLE MARK CIRCUITS</td>
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<td>O658 PERFORM OPERATIONAL CHECK OF RADOME HEATING SYSTEMS</td>
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<tr>
<td>G365 PERFORM INTERLOCK PROTECTIVE CIRCUIT OPERATIONAL CHECKS</td>
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<tr>
<td>O663 REMOVE OR REPLACE RADOME HEATING SYSTEM COMPONENTS</td>
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</tr>
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TABLE A15

GROUP ID NUMBER AND TITLE: GRP171 - FIXED RADAR MAINTENANCE PERSONNEL

NUMBER IN GROUP: 159  PERCENT OF SAMPLE: 21%

MAJCOM DISTRIBUTION: TAC (76%), AFCC (16%), OTHER (8%)

LOCATION: CONUS (76%), OVERSEAS (24%)

DAFSC DISTRIBUTION: 30332 (25%), 30352 (66%), 30372 (9%)

AVERAGE GRADE: E-4  AVERAGE MONTHS IN SERVICE: 55

AVERAGE MONTHS IN CAREER FIELD: 46

<table>
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<tr>
<th>GROUP DIFFERENTIATING TASKS</th>
<th>PERCENT MEMBERS PERFORMING</th>
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<tr>
<td>G374 REMOVE OR REPLACE DISCRETE ELECTRONIC COMPONENTS, SUCH AS TUBES, RESISTORS, CAPACITORS, OR RELAYS</td>
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<td>G362 PERFORM GENERAL SOLDERING, OTHER THAN PRINTED CIRCUIT BOARDS</td>
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<td>G343 ADJUST POWER SUPPLIES OTHER THAN SOLID-STATE POWER SUPPLIES</td>
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<tr>
<td>H410 PERFORM RADAR TRANSMITTER OPERATIONAL CHECKS</td>
<td>94</td>
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<tr>
<td>G359 PERFORM CORROSION CONTROL</td>
<td>94</td>
</tr>
<tr>
<td>G372 REMOVE OR REPLACE CABLES</td>
<td>94</td>
</tr>
<tr>
<td>G361 PERFORM GENERAL HOUSEKEEPING PROCEDURES</td>
<td>94</td>
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<tr>
<td>K483 ADJUST CRYSTAL MIXERS</td>
<td>93</td>
</tr>
<tr>
<td>G368 PERFORM POWER SUPPLY OPERATIONAL CHECKS</td>
<td>92</td>
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<tr>
<td>E235 MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)</td>
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<tr>
<td>E236 MAKE ENTRIES ON AFTO FORMS 350 (REPAIRABLE ITEM PROCESSING TAGS)</td>
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<td>G349 FABRICATE COAXIAL CABLES</td>
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<td>H398 ISOLATE MODULATOR MALFUNCTIONS</td>
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<tr>
<td>H409 PERFORM RADAR TRANSMITTER INSULATING OIL CHECKS</td>
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<tr>
<td>G371 READ AND INTERPRET EQUIPMENT TECHNICAL MANUALS</td>
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<tr>
<td>H414 REMOVE OR REPLACE MODULATOR COMPONENTS</td>
<td>86</td>
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<tr>
<td>L557 ADJUST RANGE MARK CIRCUITS</td>
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<tr>
<td>H383 ADJUST MODULATOR CONTROL CIRCUITS</td>
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<tr>
<td>G357 ISOLATE POWER SUPPLY MALFUNCTIONS OTHER THAN SOLID-STATE</td>
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<td>H393 ADJUST TRANSMITTER POWER SUPPLIES</td>
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<td>K537 REMOVE OR REPLACE CRYSTAL MIXER COMPONENTS</td>
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<td>G355 ISOLATE INTERLOCK PROTECTIVE CIRCUIT MALFUNCTIONS</td>
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<tr>
<td>I439 LUBRICATE ANTENNA SYSTEM COMPONENTS</td>
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<tr>
<td>H406 ISOLATE TRANSMITTER POWER SUPPLY MALFUNCTIONS</td>
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<td>G380 TEST INTERLOCK CIRCUITS</td>
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<td>L549 ADJUST ANGLE MARK CIRCUITS</td>
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<tr>
<td>H385 ADJUST MODULATORS</td>
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<tr>
<td>G365 PERFORM INTERLOCK PROTECTIVE CIRCUIT OPERATIONAL CHECKS</td>
<td>79</td>
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<tr>
<td>H418 REMOVE OR REPLACE TRANSMITTER COOLING SYSTEM FLUIDS</td>
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<td>K511 ISOLATE CRYSTAL MIXER MALFUNCTIONS</td>
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### TABLE A16

**GROUP ID NUMBER AND TITLE:** GRP316 - FIXED SEARCH RADAR REPAIRMEN  
**NUMBER IN GROUP:** 62  
**PERCENT OF CLUSTER:** 39%  
**MAJCOM DISTRIBUTION:** TAC (64%), AFCC (18%), OTHER (5%)  
**LOCATION:** CONUS (74%), OVERSEAS (26%)  
**DAFSC DISTRIBUTION:** 30332 (21%), 30352 (73%), 30372 (6%)  
**AVERAGE GRADE:** E-3, E-4  
**AVERAGE MONTHS IN SERVICE:** 49  
**AVERAGE MONTHS IN CAREER FIELD:** 42

**GROUP DIFFERENTIATING TASKS**

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<th>Task Description</th>
<th>PERCENT MEMBERS PERFORMING</th>
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<tr>
<td>G374 REMOVE OR REPLACE DISCRETE ELECTRONIC COMPONENTS, SUCH AS TUBES, RESISTORS, CAPACITORS, OR RELAYS</td>
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<tr>
<td>G362 PERFORM GENERAL SOLDERING, OTHER THAN PRINTED CIRCUIT BOARDS</td>
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<tr>
<td>G343 ADJUST POWER SUPPLIES OTHER THAN SOLID-STATE POWER SUPPLIES</td>
<td>98</td>
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<tr>
<td>G372 REMOVE OR REPLACE CABLES</td>
<td>98</td>
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<tr>
<td>G361 PERFORM GENERAL HOUSEKEEPING PROCEDURES</td>
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<tr>
<td>H398 ISOLATE MODULATOR MALFUNCTIONS</td>
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<tr>
<td>K483 ADJUST CRYSTAL MIXERS</td>
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<tr>
<td>K498 ADJUST STABLE LOCAL OSCILLATORS (STALO)</td>
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<td>G359 PERFORM CORROSION CONTROL</td>
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<tr>
<td>G368 PERFORM POWER SUPPLY OPERATIONAL CHECKS</td>
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<tr>
<td>G357 ISOLATE POWER SUPPLY MALFUNCTIONS OTHER THAN SOLID-STATE</td>
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<tr>
<td>K477 ADJUST ANALOG MOVING TARGET INDICATOR (MTI) RECEIVERS</td>
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<td>H410 PERFORM RADAR TRANSMITTER OPERATIONAL CHECKS</td>
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<td>G349 FABRICATE COAXIAL CABLES</td>
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<td>K547 REMOVE OR REPLACE STALO COMPONENTS</td>
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<td>G355 ISOLATE INTERLOCK PROTECTIVE CIRCUIT MALFUNCTIONS</td>
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<td>H390 ADJUST TRANSMITTER OUTPUT TUBES</td>
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<td>K491 ADJUST INTERMEDIATE FREQUENCY (IF) AMPLIFIERS</td>
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<td>K492 ADJUST INTERMEDIATE FREQUENCY (IF) PREAMPLIFIERS</td>
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<td>K537 REMOVE OR REPLACE CRYSTAL MIXER COMPONENTS</td>
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<td>H414 REMOVE OR REPLACE MODULATOR COMPONENTS</td>
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<td>K525 ISOLATE STALO MALFUNCTIONS</td>
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<td>H389 ADJUST TRANSMITTER FREQUENCY GENERATING CIRCUITS</td>
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<td>H422 REMOVE OR REPLACE TRANSMITTER POWER OUTPUT TUBES</td>
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<td>H406 ISOLATE TRANSMITTER POWER SUPPLY MALFUNCTIONS</td>
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<td>H385 ADJUST MODULATORS</td>
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<td>K510 ISOLATE COHO MALFUNCTIONS</td>
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<td>G373 REMOVE OR REPLACE CIRCUIT BOARDS OR CARDS</td>
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<td>H423 REMOVE OR REPLACE TRANSMITTER POWER SUPPLY COMPONENTS</td>
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<td>G365 PERFORM INTERLOCK PROTECTIVE CIRCUIT OPERATIONAL CHECKS</td>
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A16
**TABLE A17**

GROUP ID NUMBER AND TITLE: GRP375 - FIXED SEARCH RADAR MAINTENANCE SUPERVISORS

NUMBER IN GROUP: 16  
PERCENT OF CLUSTER: 10%

MAJCOM DISTRIBUTION: TAC (56%), PACAF (19%), AFCC (25%)

LOCATION: CONUS (38%), OVERSEAS (62%)

DAFSC DISTRIBUTION: 30352 (63%), 30372 (37%)

AVERAGE GRADE: E-5  
AVERAGE MONTHS IN SERVICE: 132

AVERAGE MONTHS IN CAREER FIELD: 123

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<thead>
<tr>
<th>GROUP DIFFERENTIATING TASKS</th>
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</thead>
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<tr>
<td>D149 CONDUCT OJT</td>
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<tr>
<td>A8 DETERMINE WORK PRIORITIES</td>
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<td>E235 MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)</td>
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<tr>
<td>G371 READ AND INTERPRET EQUIPMENT TECHNICAL MANUALS</td>
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<tr>
<td>E212 MAINTAIN OR MAKE ENTRIES IN MAINTENANCE LOGS</td>
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<td>G374 REMOVE OR REPLACE DISCRETE ELECTRONIC COMPONENTS, SUCH AS TUBES, RESISTORS, CAPACITORS, OR RELAYS</td>
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<tr>
<td>D154 COUNSEL Trainees ON TRAINING PROGRESS</td>
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<td>H410 PERFORM RADAR TRANSMITTER OPERATIONAL CHECKS</td>
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<td>D155 DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION</td>
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<td>G375 REMOVE OR REPLACE ELECTRONIC CHASSIS</td>
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<td>G372 REMOVE OR REPLACE CABLES</td>
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<tr>
<td>H406 ISOLATE TRANSMITTER POWER SUPPLY MALFUNCTIONS</td>
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<td>H414 REMOVE OR REPLACE MODULATOR COMPONENTS</td>
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<td>G357 ISOLATE POWER SUPPLY MALFUNCTIONS OTHER THAN SOLID-STATE</td>
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<td>G362 PERFORM GENERAL SOLDERING, OTHER THAN PRINTED CIRCUIT BOARDS</td>
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<td>H402 ISOLATE TRANSMITTER CONTROL SYSTEM MALFUNCTIONS</td>
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<td>K507 ISOLATE ANALOG TRIGGER TIMING GENERATOR MALFUNCTIONS</td>
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<td>K483 ADJUST CRYSTAL MIXERS</td>
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<td>H409 PERFORM RADAR TRANSMITTER INSULATING OIL CHECKS</td>
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<td>H385 ADJUST MODULATORS</td>
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<tr>
<td>L559 ADJUST SWEEP GENERATING CIRCUITS</td>
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<td>L557 ADJUST RANGE MARK CIRCUITS</td>
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<td>K533 REMOVE OR REPLACE ANALOG RECEIVER CIRCUIT COMPONENTS</td>
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<td>H384 ADJUST MODULATOR PROTECTIVE CIRCUITS</td>
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<td>K511 ISOLATE CRYSTAL MIXER MALFUNCTIONS</td>
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<tr>
<td>G370 PERFORM SYSTEM GROUNDING CHECKS</td>
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<td>G380 TEST INTERLOCK CIRCUITS</td>
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<tr>
<td>K537 REMOVE OR REPLACE CRYSTAL MIXER COMPONENTS</td>
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</table>

A17
GROUP ID NUMBER AND TITLE: GRP300 - HEIGHT FINDER RADAR MAINTENANCE REPAIRMEN

NUMBER IN GROUP: 38  PERCENT OF CLUSTER: 24%
MAJCOM DISTRIBUTION: TAC (87%), AFCC (11%), OTHER (1%)
LOCATION: CONUS (84%), OVERSEAS (16%)
DAFSC DISTRIBUTION: 30332 (39%), 30352 (61%)
AVERAGE GRADE: E-3  AVERAGE MONTHS IN SERVICE: 28
AVERAGE MONTHS IN CAREER FIELD: 24

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<thead>
<tr>
<th>GROUP DIFFERENTIATING TASKS</th>
<th>PERCENT MEMBERS PERFORMING</th>
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<tbody>
<tr>
<td>G361 PERFORM GENERAL HOUSEKEEPING PROCEDURES</td>
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<td>G374 REMOVE OR REPLACE DISCRETE ELECTRONIC COMPONENTS, SUCH AS TUBES, RESISTORS, CAPACITORS, OR RELAYS</td>
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<tr>
<td>L576 PERFORM RHI OPERATIONAL CHECKS</td>
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<tr>
<td>H383 ADJUST MODULATOR CONTROL CIRCUITS</td>
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<tr>
<td>H410 PERFORM RADAR TRANSMITTER OPERATIONAL CHECKS</td>
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<td>G343 ADJUST POWER SUPPLIES OTHER THAN SOLID-STATE POWER SUPPLIES</td>
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</tr>
<tr>
<td>G381 TORQUE MISCELLANEOUS HARDWARE, SUCH AS SCREWS OR BOLTS</td>
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<tr>
<td>L557 ADJUST RANGE MARK CIRCUITS</td>
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</tr>
<tr>
<td>I426 ADJUST ANTENNA CONTROL SYSTEMS</td>
<td>97</td>
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<td>G380 TEST INTERLOCK CIRCUITS</td>
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<td>L568 ISOLATE RANGE MARK CIRCUIT MALFUNCTIONS</td>
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<tr>
<td>G371 READ AND INTERPRET EQUIPMENT TECHNICAL MANUALS</td>
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<td>G359 PERFORM CORROSION CONTROL</td>
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<tr>
<td>I441 PERFORM ANTENNA DRIVE AND CONTROL SYSTEM OPERATIONAL CHECKS</td>
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<td>H403 ISOLATE TRANSMITTER COOLING SYSTEM MALFUNCTIONS</td>
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<td>G362 PERFORM GENERAL SOLDERING, OTHER THAN PRINTED CIRCUIT BOARDS</td>
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<td>E235 MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)</td>
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<td>G368 PERFORM POWER SUPPLY OPERATIONAL CHECKS</td>
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<td>K483 ADJUST CRYSTAL MIXERS</td>
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<td>K481 ADJUST AUTOMATIC FREQUENCY CONTROL (AFC) CIRCUITS</td>
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<td>L578 REMOVE OR REPLACE ANGLE MARK CIRCUIT COMPONENTS</td>
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<td>I431 ADJUST ELEVATION DATA GENERATORS</td>
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<td>H398 ISOLATE MODULATOR MALFUNCTIONS</td>
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<td>E236 MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAGS)</td>
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<td>H409 PERFORM RADAR TRANSMITTER INSULATING OIL CHECKS</td>
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<td>G345 CALCULATE REFRACTIVE INDEXES</td>
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<td>H414 REMOVE OR REPLACE MODULATOR COMPONENTS</td>
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<tr>
<td>L554 ADJUST HEIGHT DISPLAYS</td>
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**TABLE A19**

GROUP ID NUMBER AND TITLE: GRP330 - HEIGHT FINDER RADAR MAINTENANCE SUPERVISOR

NUMBER IN GROUP: 7  
PERCENT OF CLUSTER: 4%

MAJCOM DISTRIBUTION: TAC (86%), AFCC (14%)

LOCATION: CONUS (100%)

DAFSC DISTRIBUTION: 30352 (57%), 30372 (43%)

AVERAGE GRADE: E-5  
AVERAGE MONTHS IN SERVICE: 138

AVERAGE MONTHS IN CAREER FIELD: 111

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<th>GROUP DIFFERENTIATING TASKS</th>
<th>PERCENT MEMBERS PERFORMING</th>
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<td>B81 SUPervise apprentice AC&amp;W radar specialists (30332)</td>
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<td>D155 Demonstrate how to locate technical information</td>
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<td>D149 Conduct OJT</td>
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<tr>
<td>G371 Read and interpret equipment technical manuals</td>
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<td>C140 Write APR</td>
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<td>D154 Counsel trainees on training progress</td>
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<td>E235 Make entries on AFTO forms 349 (maintenance data collection record)</td>
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<td>G361 Perform general housekeeping procedures</td>
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<td>C120 Inspect personnel for compliance with military standards</td>
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<td>G359 Perform corrosion control</td>
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<td>F333 Review status of awaiting maintenance (AWM) parts</td>
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<tr>
<td>G362 Perform general soldering, other than printed circuit boards</td>
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<tr>
<td>A8 Determine work priorities</td>
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<tr>
<td>G343 Adjust power supplies other than solid-state power supplies</td>
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<tr>
<td>E236 Make entries on AFTO forms 350 (reparable item processing tags)</td>
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<td>F334 Review status of awaiting parts (AWP) equipment</td>
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<td>I439 Lubricate antenna system components</td>
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<tr>
<td>I426 Adjust antenna control systems</td>
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<td>L554 Adjust height displays</td>
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<td>I427 Adjust antenna drive systems</td>
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<td>G367 Perform power distribution system operational checks</td>
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<td>G368 Perform power supply operational checks</td>
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<td>L568 Isolate range mark circuit malfunctions</td>
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<td>G366 Perform organizational maintenance of test equipment</td>
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<td>H383 Adjust modulator control circuits</td>
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<tr>
<td>E232 Make entries on AFTO forms 22 (technical order system publication improvement report and reply)</td>
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<td>L557 Adjust range mark circuits</td>
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<td>G372 Remove or replace cables</td>
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<td>H409 Perform radar transmitter insulating oil checks</td>
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<td>E200 Locate information in technical, standard, or supply publications</td>
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<td>TASK DESCRIPTION</td>
<td>PERCENT MEMBERS PERFORMING</td>
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<td>G374 REMOVE OR REPLACE DISCRETE ELECTRONIC COMPONENTS, SUCH AS TUBES, RESISTORS,</td>
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<td>G372 REMOVE OR REPLACE CABLES</td>
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<td>G362 PERFORM GENERAL SOLDERING, OTHER THAN PRINTED CIRCUIT BOARDS</td>
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<td>L575 PERFORM PLAN POSITION INDICATOR (PPI) OPERATIONAL CHECKS</td>
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<td>K483 ADJUST CRYSTAL MIXERS</td>
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<td>G368 PERFORM POWER SUPPLY OPERATIONAL CHECKS</td>
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<td>G349 FABRICATE COAXIAL CABLES</td>
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<tr>
<td>G360 PERFORM FACILITIES MAINTENANCE, SUCH AS PAINTING BUILDINGS</td>
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<td>N611 ADJUST GAIN TIME CONSTANT (GTC) CIRCUITS</td>
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<td>G343 ADJUST POWER SUPPLIES OTHER THAN SOLID-STATE POWER SUPPLIES</td>
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<tr>
<td>K482 ADJUST COHERENT OSCILLATORS (COHO)</td>
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<td>K498 ADJUST STABLE LOCAL OSCILLATORS (STALO)</td>
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<td>L549 ADJUST ANGLE MARK CIRCUITS</td>
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<td>E235 MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)</td>
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<td>H390 ADJUST TRANSMITTER OUTPUT TUBES</td>
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<td>H394 ADJUST TRANSMITTER RADIO FREQUENCY (RF) AMPLIFIERS, OTHER THAN OUTPUT TUBES</td>
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<td>H422 REMOVE OR REPLACE TRANSMITTER POWER OUTPUT TUBES</td>
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<td>K477 ADJUST ANALOG MOVING TARGET INDICATOR (MTI) RECEIVERS</td>
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<td>K491 ADJUST INTERMEDIATE FREQUENCY (IF) AMPLIFIERS</td>
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<td>K492 ADJUST INTERMEDIATE FREQUENCY (IF) PREAMPLIFIERS</td>
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<td>N636 PERFORM SIF SYSTEM OPERATIONAL CHECKS</td>
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<td>F283 COMPLETE AF FORMS 2005 (ISSUE/TURN IN REQUEST)</td>
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<td>H393 ADJUST TRANSMITTER POWER SUPPLIES</td>
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<td>L579 REMOVE OR REPLACE CRT</td>
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GROUP ID NUMBER AND TITLE: GRP459 - AN/FPS–91 RADAR TRANSMITTER SPECIALISTS

NUMBER IN GROUP: 6  
PERCENT OF CLUSTER: 4%

MAJCOM DISTRIBUTION: TAC (100%)

LOCATION: CONUS (100%)

DAFSC DISTRIBUTION: 30332 (67%), 30352 (33%)

AVERAGE GRADE: E-3  
AVERAGE MONTHS IN SERVICE: 17

AVERAGE MONTHS IN CAREER FIELD: 14

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<td>H383 ADJUST MODULATOR CONTROL CIRCUITS</td>
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<td>H406 ISOLATE TRANSMITTER POWER SUPPLY MALFUNCTIONS</td>
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<td>H425 REMOVE OR REPLACE TRANSMITTER PULSE TRANSFORMERS</td>
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<td>H400 ISOLATE POWER OUTPUT CIRCUIT MALFUNCTIONS</td>
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<td>K547 REMOVE OR REPLACE STALO COMPONENTS</td>
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TABLE A22

GROUP ID NUMBER AND TITLE: GRP142 - TACTICAL RADAR MAINTENANCE PERSONNEL

NUMBER IN GROUP: 161 PERCENT OF SAMPLE: 21%

MAJCOM DISTRIBUTION: TAC (54%), USAFE (33%), AFCC (7%), PACAF (5%)

LOCATION: CONUS (60%), OVERSEAS (40%)

DAFSC DISTRIBUTION: 30332 (22%), 30352 (66%), 30372 (12%)

AVERAGE GRADE: E-4 AVERAGE MONTHS IN SERVICE: 64

AVERAGE MONTHS IN CAREER FIELD: 56

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<td>G373 REMOVE OR REPLACE CIRCUIT BOARDS OR CARDS</td>
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<tr>
<td>H412 PRESSURIZE SF6 TANKS</td>
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<td>I438 LEVEL ANTENNA PEDESTALS</td>
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<td>G349 FABRICATE COAXIAL CABLES</td>
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<td>H396 DEPRESSURIZE SF6 TANKS</td>
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<td>L551 ADJUST CRT PROTECTION CIRCUITS</td>
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<td>H418 REMOVE OR REPLACE TRANSMITTER COOLING SYSTEM FLUIDS</td>
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<td>H409 PERFORM RADAR TRANSMITTER INSULATING OIL CHECKS</td>
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<td>K528 PERFORM RADAR RECEIVING SYSTEM OPERATIONAL CHECKS USING BUILT-IN TEST EQUIPMENT (BITE)</td>
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<td>L559 ADJUST SWEEP GENERATING CIRCUITS</td>
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<td>L550 ADJUST CATHODE RAY TUBE (CRT) DEFORMATION CIRCUITS</td>
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<td>H403 ISOLATE TRANSMITTER COOLING SYSTEM MALFUNCTIONS</td>
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<td>G344 ADJUST SOLID-STATE POWER SUPPLIES</td>
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<td>L557 ADJUST RANGE MARK CIRCUITS</td>
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<td>H412 PRESSURIZE SF6 TANKS</td>
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<td>I438 LEVEL ANTENNA PEDESTALS</td>
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<td>H418 REMOVE OR REPLACE TRANSMITTER COOLING SYSTEM FLUIDS</td>
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<td>H410 PERFORM RADAR TRANSMITTER OPERATIONAL CHECKS</td>
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<td>I439 LUBRicate ANTENNA SYSTEM COMPONENTS</td>
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<td>G368 PERFORM POWER SUPPLY OPERATIONAL CHECKS</td>
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<td>G362 PERFORM GENERAL SOLDERING, OTHER THAN PRINTED CIRCUIT BOARDS</td>
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<tr>
<td>E235 MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)</td>
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<td>G371 READ AND INTERPRET EQUIPMENT TECHNICAL MANUALS</td>
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<td>G373 REMOVE OR REPLACE CIRCUIT BOARDS OR CARDS</td>
<td>95</td>
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<td>G377 REMOVE OR REPLACE SOLID-STATE DEVICES</td>
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<td>L552 ADJUST CURSOR CIRCUITS</td>
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<tr>
<td>H417 REMOVE OR REPLACE TRANSMITTER COOLING SYSTEM COMPONENTS</td>
<td>94</td>
</tr>
<tr>
<td>H403 ISOLATE TRANSMITTER COOLING SYSTEM MALFUNCTIONS</td>
<td>94</td>
</tr>
<tr>
<td>G361 PERFORM GENERAL HOUSEKEEPING PROCEDURES</td>
<td>93</td>
</tr>
<tr>
<td>G359 PERFORM CORROSION CONTROL</td>
<td>93</td>
</tr>
<tr>
<td>F283 COMPLETE AF FORMS 2005 (ISSUE/TURN IN REQUEST)</td>
<td>92</td>
</tr>
<tr>
<td>H409 PERFORM RADAR TRANSMITTER INSULATING OIL CHECKS</td>
<td>92</td>
</tr>
<tr>
<td>L559 ADJUST SWEEP GENERATING CIRCUITS</td>
<td>91</td>
</tr>
<tr>
<td>Q767 PACK RADAR EQUIPMENT FOR DEPLOYMENT OR REDEPLOYMENT</td>
<td>90</td>
</tr>
<tr>
<td>L575 PERFORM PLAN POSITION INDICATOR (PPI) OPERATIONAL CHECKS</td>
<td>90</td>
</tr>
<tr>
<td>K528 PERFORM RADAR RECEIVING SYSTEM OPERATIONAL CHECKS USING BUILT-IN TEST EQUIPMENT (BITE)</td>
<td>90</td>
</tr>
<tr>
<td>L557 ADJUST RANGE MARK CIRCUITS</td>
<td>90</td>
</tr>
</tbody>
</table>
TABLE A24

GROUP ID NUMBER AND TITLE: GRP355 - TACTICAL RADAR MAINTENANCE SUPERVISORS

NUMBER IN GROUP: 24  PERCENT OF CLUSTER: 15%

MAJCOM DISTRIBUTION: USAFE (50%), TAC (38%), AFCC (8%), OTHER (4%)

LOCATION: CONUS (42%), OVERSEAS (58%)

DAFSC DISTRIBUTION: 30332 (4%), 30352 (50%), 30372 (46%)

AVERAGE GRADE: E-5  AVERAGE MONTHS IN SERVICE: 145

AVERAGE MONTHS IN CAREER FIELD: 135

<table>
<thead>
<tr>
<th>GROUP DIFFERENTIATING TASKS</th>
<th>PERCENT MEMBERS PERFORMING</th>
</tr>
</thead>
<tbody>
<tr>
<td>G371 READ AND INTERPRET EQUIPMENT TECHNICAL MANUALS</td>
<td>100</td>
</tr>
<tr>
<td>E236 MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAGS)</td>
<td>100</td>
</tr>
<tr>
<td>F330 RESEARCH MICROFICHE FILES FOR SUPPLY REQUISITION DATA</td>
<td>100</td>
</tr>
<tr>
<td>H410 PERFORM RADAR TRANSMITTER OPERATIONAL CHECKS</td>
<td>100</td>
</tr>
<tr>
<td>A8 DETERMINE WORK PRIORITIES</td>
<td>100</td>
</tr>
<tr>
<td>F281 ATTACH OR ANNOTATE EQUIPMENT STATUS LABELS OR TAGS, SUCH AS DD FORMS 1574 (SERVICEABLE TAG-MATERIEL)</td>
<td>100</td>
</tr>
<tr>
<td>N636 PERFORM SIF SYSTEM OPERATIONAL CHECKS</td>
<td>100</td>
</tr>
<tr>
<td>H403 ISOLATE TRANSMITTER COOLING SYSTEM MALFUNCTIONS</td>
<td>100</td>
</tr>
<tr>
<td>G374 REMOVE OR REPLACE DISCRETE ELECTRONIC COMPONENTS, SUCH AS TUBES, RESISTORS, CAPACITORS, OR RELAYS</td>
<td>100</td>
</tr>
<tr>
<td>B73 INITIATE FOLLOW-UP ACTIONS ON WORK IN PROGRESS</td>
<td>100</td>
</tr>
<tr>
<td>G372 REMOVE OR REPLACE CABLES</td>
<td>100</td>
</tr>
<tr>
<td>G375 REMOVE OR REPLACE ELECTRONIC CHASSIS</td>
<td>100</td>
</tr>
<tr>
<td>K487 ADJUST DIGITAL MTI RECEIVERS</td>
<td>100</td>
</tr>
<tr>
<td>H418 REMOVE OR REPLACE TRANSMITTER COOLING SYSTEM FLUIDS</td>
<td>100</td>
</tr>
<tr>
<td>J459 ISOLATE WAVE-C'IDE PRESSURIZING SYSTEM MALFUNCTIONS</td>
<td>100</td>
</tr>
<tr>
<td>J471 REMOVE OR REPLACE WAVE-GUIDE PRESSURIZING SYSTEM COMPONENTS</td>
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</tr>
<tr>
<td>H417 REMOVE OR REPLACE TRANSMITTER COOLING SYSTEM COMPONENTS</td>
<td>100</td>
</tr>
<tr>
<td>K523 ISOLATE SIDE LOBE RECEIVER CIRCUIT MALFUNCTIONS</td>
<td>100</td>
</tr>
<tr>
<td>K524 ISOLATE SIGNAL DISTRIBUTION CIRCUIT MALFUNCTIONS</td>
<td>100</td>
</tr>
<tr>
<td>L570 ISOLATE SWEEP GENERATING CIRCUIT MALFUNCTIONS</td>
<td>100</td>
</tr>
<tr>
<td>H409 PERFORM RADAR TRANSMITTER INSULATING OIL CHECKS</td>
<td>100</td>
</tr>
<tr>
<td>L552 ADJUST CURSOR CIRCUITS</td>
<td>100</td>
</tr>
<tr>
<td>K496 ADJUST SIDE LOBE RECEIVER CIRCUITS</td>
<td>100</td>
</tr>
<tr>
<td>N611 ADJUST GAIN TIME CONSTANT (GTC) CIRCUITS</td>
<td>100</td>
</tr>
<tr>
<td>G356 ISOLATE POWER DISTRIBUTION SYSTEM MALFUNCTIONS</td>
<td>100</td>
</tr>
<tr>
<td>E235 MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)</td>
<td>95</td>
</tr>
<tr>
<td>D155 DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION</td>
<td>95</td>
</tr>
<tr>
<td>G373 REMOVE OR REPLACE CIRCUIT BOARDS OR CARDS</td>
<td>95</td>
</tr>
<tr>
<td>D154 COUNSEL TRAINEES ON TRAINING PROGRESS</td>
<td>95</td>
</tr>
<tr>
<td>G377 REMOVE OR REPLACE SOLID-STATE DEVICES</td>
<td>95</td>
</tr>
</tbody>
</table>

A24
GROUP ID NUMBER AND TITLE: GRP371 - TACTICAL RADAR TRAINER MAINTENANCE SUPERVISORS

NUMBER IN GROUP: 8 PERCENT OF CLUSTER: 5%

MAJCOM DISTRIBUTION: TAC (63%), USAFE (37%)

LOCATION: CONUS (63%), OVERSEAS (37%)

DAFSC DISTRIBUTION: 30332 (25%), 30352 (62%), 30372 (13%)

AVERAGE GRADE: E-4, E-5 AVERAGE MONTHS IN SERVICE: 75

AVERAGE MONTHS IN CAREER FIELD: 50

<table>
<thead>
<tr>
<th>GROUP DIFFERENTIATING TASKS</th>
<th>PERCENT MEMBERS PERFORMING</th>
</tr>
</thead>
<tbody>
<tr>
<td>P701 LOAD FILM IN RADAR TRAINERS</td>
<td>100</td>
</tr>
<tr>
<td>P669 ADJUST RADAR TRAINER AIRCRAFT CHARACTERISTICS</td>
<td>100</td>
</tr>
<tr>
<td>P702 PERFORM OPERATIONAL CHECKS OF RADAR TRAINERS</td>
<td>100</td>
</tr>
<tr>
<td>P680 ADJUST RADAR TRAINER POWER SUPPLIES</td>
<td>100</td>
</tr>
<tr>
<td>P672 ADJUST RADAR TRAINER COMPARATORS</td>
<td>100</td>
</tr>
<tr>
<td>P681 ADJUST RADAR TRAINER SERVO AMPLIFIERS</td>
<td>100</td>
</tr>
<tr>
<td>P697 ISOLATE RADAR TRAINER SERVO AMPLIFIER MALFUNCTIONS</td>
<td>100</td>
</tr>
<tr>
<td>P676 ADJUST RADAR TRAINER FILM DRIVE CIRCUITS</td>
<td>100</td>
</tr>
<tr>
<td>P682 ADJUST RADAR TRAINER SYNCHRO CIRCUITS</td>
<td>100</td>
</tr>
<tr>
<td>P675 ADJUST RADAR TRAINER CRT PROTECTION CIRCUITS</td>
<td>100</td>
</tr>
<tr>
<td>E235 MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)</td>
<td>100</td>
</tr>
<tr>
<td>P698 ISOLATE RADAR TRAINER SYNCHRO CIRCUIT MALFUNCTIONS</td>
<td>100</td>
</tr>
<tr>
<td>P677 ADJUST RADAR TRAINER GENERATORS</td>
<td>100</td>
</tr>
<tr>
<td>P671 ADJUST RADAR TRAINER CATHODE RAY TUBE (CRT) DEFLECTION CIRCUITS</td>
<td>100</td>
</tr>
<tr>
<td>P678 ADJUST RADAR TRAINER IDENTIFICATION FRIEND OR FOE (IFF) CODER SYSTEMS</td>
<td>100</td>
</tr>
<tr>
<td>P714 REMOVE OR REPLACE RADAR TRAINER SERVO AMPLIFIERS</td>
<td>100</td>
</tr>
<tr>
<td>P670 ADJUST RADAR TRAINER BUFFERS</td>
<td>100</td>
</tr>
<tr>
<td>P715 REMOVE OR REPLACE RADAR TRAINER SYNCHRO CIRCUIT COMPONENTS</td>
<td>100</td>
</tr>
<tr>
<td>G374 REMOVE OR REPLACE DISCRETE ELECTRONIC COMPONENTS, SUCH AS TUBES, RESISTORS, CAPACITORS, OR RELAYS</td>
<td>100</td>
</tr>
<tr>
<td>P696 ISOLATE RADAR TRAINER POWER SUPPLY MALFUNCTIONS</td>
<td>100</td>
</tr>
<tr>
<td>G372 REMOVE OR REPLACE CABLES</td>
<td>100</td>
</tr>
<tr>
<td>P685 ISOLATE RADAR TRAINER AIRCRAFT CHARACTERISTIC MALFUNCTIONS</td>
<td>100</td>
</tr>
<tr>
<td>G373 REMOVE OR REPLACE CIRCUIT BOARDS OR CARDS</td>
<td>100</td>
</tr>
<tr>
<td>H410 PERFORM RADAR TRANSMITTER OPERATIONAL CHECKS</td>
<td>100</td>
</tr>
<tr>
<td>P684 ISOLATE RADAR TRAINER ACTOR MALFUNCTIONS</td>
<td>100</td>
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<tr>
<td>P713 REMOVE OR REPLACE RADAR TRAINER POWER SUPPLY COMPONENTS</td>
<td>100</td>
</tr>
<tr>
<td>G343 ADJUST POWER SUPPLIES OTHER THAN SOLID-STATE POWER SUPPLIES</td>
<td>100</td>
</tr>
<tr>
<td>G377 REMOVE OR REPLACE SOLID-STATE DEVICES</td>
<td>100</td>
</tr>
<tr>
<td>P687 ISOLATE RADAR TRAINER COMPARATOR MALFUNCTIONS</td>
<td>100</td>
</tr>
<tr>
<td>P700 ISOLATE RADAR TRAINER VIDEO CIRCUIT MALFUNCTIONS</td>
<td>100</td>
</tr>
</tbody>
</table>
TABLE A26

GROUP ID NUMBER AND TITLE: GRP321 - TACTICAL RADAR TRAINER REPAIRMEN

NUMBER IN GROUP: 6 PERCENT OF CLUSTER: 4%

MAJCOM DISTRIBUTION: TAC (83%), USAFE (17%)

LOCATION: CONUS (83%), OVERSEAS (17%)

DAFSC DISTRIBUTION: 30332 (17%), 30352 (83%)

AVERAGE GRADE: E-3 AVERAGE MONTHS IN SERVICE: 20

AVERAGE MONTHS IN CAREER FIELD: 18

GROUP DIFFERENTIATING TASKS

<table>
<thead>
<tr>
<th>PERCENT MEMBERS PERFORMING</th>
<th>TASK DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>P680 ADJUST RADAR TRAINER POWER SUPPLIES</td>
</tr>
<tr>
<td>100</td>
<td>L575 PERFORM PLAN POSITION INDICATOR (PPI) OPERATIONAL CHECKS</td>
</tr>
<tr>
<td>100</td>
<td>G359 PERFORM CORROSION CONTROL</td>
</tr>
<tr>
<td>100</td>
<td>G361 PERFORM GENERAL HOUSEKEEPING PROCEDURES</td>
</tr>
<tr>
<td>100</td>
<td>J472 REMOVE OR REPLACE WAVE-GUIDE SECTIONS</td>
</tr>
<tr>
<td>100</td>
<td>G368 PERFORM POWER SUPPLY OPERATIONAL CHECKS</td>
</tr>
<tr>
<td>100</td>
<td>G374 REMOVE OR REPLACE DISCRETE ELECTRONIC COMPONENTS, SUCH AS TUBES, RESISTORS, CAPACITORS, OR RELAYS</td>
</tr>
<tr>
<td>100</td>
<td>P702 PERFORM OPERATIONAL CHECKS OF RADAR TRAINERS</td>
</tr>
<tr>
<td>100</td>
<td>E235 MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)</td>
</tr>
<tr>
<td>100</td>
<td>Q722 ASSEMBLE OR DISASSEMBLE MOBILE RADAR EQUIPMENT FOR MISSION DEPLOYMENTS</td>
</tr>
<tr>
<td>100</td>
<td>P701 LOAD FILM IN RADAR TRAINERS</td>
</tr>
<tr>
<td>100</td>
<td>Q782 TEAR DOWN MOBILE ANTENNAS</td>
</tr>
<tr>
<td>100</td>
<td>G372 REMOVE OR REPLACE CABLES</td>
</tr>
<tr>
<td>100</td>
<td>H410 PERFORM RADAR TRANSMITTER OPERATIONAL CHECKS</td>
</tr>
<tr>
<td>100</td>
<td>P681 ADJUST RADAR TRAINER SERVO AMPLIFIERS</td>
</tr>
<tr>
<td>100</td>
<td>P704 REMOVE OR REPLACE RADAR TRAINER AIRCRAFT CHARACTERISTIC MODULES OR COMPONENTS</td>
</tr>
<tr>
<td>100</td>
<td>I438 LEVEL ANTENNA PEDESTALS</td>
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<tr>
<td>100</td>
<td>Q738 ASSEMBLE MOBILE ANTENNAS</td>
</tr>
<tr>
<td>100</td>
<td>L550 ADJUST CATHODE RAY TUBE (CRT) DEFLECTION CIRCUITS</td>
</tr>
<tr>
<td>100</td>
<td>G362 PERFORM GENERAL SOLDERING, OTHER THAN PRINTED CIRCUIT BOARDS</td>
</tr>
<tr>
<td>100</td>
<td>L557 ADJUST RANGE MARK CIRCUITS</td>
</tr>
<tr>
<td>100</td>
<td>L552 ADJUST CURSOR CIRCUITS</td>
</tr>
<tr>
<td>100</td>
<td>L551 ADJUST CRT PROTECTION CIRCUITS</td>
</tr>
<tr>
<td>100</td>
<td>I441 PERFORM ANTENNA DRIVE AND CONTROL SYSTEM OPERATIONAL CHECKS</td>
</tr>
<tr>
<td>100</td>
<td>P682 ADJUST RADAR TRAINER SYNCHRO CIRCUITS</td>
</tr>
<tr>
<td>100</td>
<td>H412 PRESSURIZE SF6 TANKS</td>
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<tr>
<td>100</td>
<td>G377 REMOVE OR REPLACE SOLID-STATE DEVICES</td>
</tr>
<tr>
<td>100</td>
<td>H396 DEPRESSURIZE SF6 TANKS</td>
</tr>
<tr>
<td>100</td>
<td>H383 ADJUST MODULATOR CONTROL CIRCUITS</td>
</tr>
<tr>
<td>100</td>
<td>H409 PERFORM RADAR TRANSMITTER INSULATING OIL CHECKS</td>
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</table>

A26
**TABLE A27**

**GROUP ID NUMBER AND TITLE:** GRP293 - TACTICAL RADAR CREW MEMBERS  
**NUMBER IN GROUP:** 12  
**PERCENT OF SAMPLE:** 2%  
**MAJCOM DISTRIBUTION:** TAC (75%), USAFE (25%)  
**LOCATION:** CONUS (75%), OVERSEAS (25%)  
**DAFSC DISTRIBUTION:** 30332 (75%), 30352 (25%)  
**AVERAGE GRADE:** E-3  
**AVERAGE MONTHS IN SERVICE:** 20  
**AVERAGE MONTHS IN CAREER FIELD:** 17

**GROUP DIFFERENTIATING TASKS**

<table>
<thead>
<tr>
<th>Task Description</th>
<th>Percent Performing</th>
</tr>
</thead>
<tbody>
<tr>
<td>G361 Perform general housekeeping procedures</td>
<td>100</td>
</tr>
<tr>
<td>Q782 Tear down mobile antennas</td>
<td>100</td>
</tr>
<tr>
<td>Q722 Assemble or disassemble mobile radar equipment for mission deployments</td>
<td>100</td>
</tr>
<tr>
<td>G359 Perform corrosion control</td>
<td>100</td>
</tr>
<tr>
<td>Q785 Tear down, inspect, clean, and reassemble M-16 rifles</td>
<td>100</td>
</tr>
<tr>
<td>Q720 Anchor radar equipment</td>
<td>100</td>
</tr>
<tr>
<td>G372 Remove or replace cables</td>
<td>100</td>
</tr>
<tr>
<td>Q738 Erect mobile antennas</td>
<td>91</td>
</tr>
<tr>
<td>I439 Lubricate antenna system components</td>
<td>91</td>
</tr>
<tr>
<td>Q767 Pack radar equipment for deployment or redeployment</td>
<td>91</td>
</tr>
<tr>
<td>Q743 Fire M-16 rifles</td>
<td>91</td>
</tr>
<tr>
<td>K487 Adjust digital MTI receivers</td>
<td>91</td>
</tr>
<tr>
<td>H412 Pressurize SF6 tanks</td>
<td>91</td>
</tr>
<tr>
<td>H396 Depressurize SF6 tanks</td>
<td>91</td>
</tr>
<tr>
<td>G360 Perform facilities maintenance, such as painting buildings</td>
<td>91</td>
</tr>
<tr>
<td>K486 Adjust digital linear receivers</td>
<td>91</td>
</tr>
<tr>
<td>L575 Perform plan position indicator (PPI) operational checks</td>
<td>83</td>
</tr>
<tr>
<td>H410 Perform radar transmitter operational checks</td>
<td>83</td>
</tr>
<tr>
<td>E235 Make entries on APTO forms 349 (maintenance data collection record)</td>
<td>83</td>
</tr>
<tr>
<td>K528 Perform radar receiving system operational checks using built-in test equipment (BITE)</td>
<td>83</td>
</tr>
<tr>
<td>Q740 Erect tents</td>
<td>83</td>
</tr>
<tr>
<td>L552 Adjust cursor circuits</td>
<td>83</td>
</tr>
<tr>
<td>G381 Torque miscellaneous hardware, such as screws or bolts</td>
<td>83</td>
</tr>
<tr>
<td>G373 Remove or replace circuit boards or cards</td>
<td>83</td>
</tr>
<tr>
<td>G371 Read and interpret equipment technical manuals</td>
<td>83</td>
</tr>
<tr>
<td>F330 Research microfiche files for supply requisition data</td>
<td>83</td>
</tr>
<tr>
<td>Q771 Perform personal hygiene techniques under field conditions</td>
<td>75</td>
</tr>
<tr>
<td>H411 Perform transmitter status control system operational checks</td>
<td>75</td>
</tr>
<tr>
<td>Q766 Pack individual mobility equipment for deployments</td>
<td>75</td>
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</tbody>
</table>
TABLE A28

GROUP ID NUMBER AND TITLE: GRP195 - ENGINEERING INSTALLATION TEAM MEMBERS

NUMBER IN GROUP: 6
PERCENT OF SAMPLE: 1%

MAJCOM DISTRIBUTION: AFCC (100%)

LOCATION: CONUS (100%)

DAFSC DISTRIBUTION: 30332 (17%), 30352 (83%)

AVERAGE GRADE: E-3
AVERAGE MONTHS IN SERVICE: 29
AVERAGE MONTHS IN CAREER FIELD: 21

<table>
<thead>
<tr>
<th>GROUP DIFFERENTIATING TASKS</th>
<th>PERCENT MEMBERS PERFORMING</th>
</tr>
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<tbody>
<tr>
<td>G372 REMOVE OR REPLACE CABLES</td>
<td>100</td>
</tr>
<tr>
<td>G382 VERIFY CABLE TERMINATORS</td>
<td>100</td>
</tr>
<tr>
<td>G379 TERMINATE CABLES</td>
<td>100</td>
</tr>
<tr>
<td>G381 TORQUE MISCELLANEOUS HARDWARE, SUCH AS SCREWS OR BOLTS</td>
<td>100</td>
</tr>
<tr>
<td>Q754 INSTALL OR REMOVE RADAR OR AUXILIARY EQUIPMENT</td>
<td>100</td>
</tr>
<tr>
<td>G349 FABRICATE COAXIAL CABLES</td>
<td>100</td>
</tr>
<tr>
<td>Q750 INSTALL OR REMOVE CABLE SUPPORT SYSTEMS</td>
<td>100</td>
</tr>
<tr>
<td>G352 FABRICATE POWER CABLES</td>
<td>100</td>
</tr>
<tr>
<td>G362 PERFORM GENERAL SOLDERING, OTHER THAN PRINTED CIRCUIT BOARDS</td>
<td>100</td>
</tr>
<tr>
<td>G351 FABRICATE MINOR HARDWARE, SUCH AS CLAMPS, BRACKETS, OR BRACES</td>
<td>100</td>
</tr>
<tr>
<td>G353 FABRICATE SEMIRIGID CABLES</td>
<td>100</td>
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<tr>
<td>Q751 INSTALL OR REMOVE FIXED-SITE ANTENNAS</td>
<td>83</td>
</tr>
<tr>
<td>I448 REMOVE OR REPLACE ANTENNA SLIP RING ASSEMBLIES</td>
<td>83</td>
</tr>
<tr>
<td>I438 LEVEL ANTENNA PEDESTALS</td>
<td>83</td>
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<tr>
<td>I449 REMOVE OR REPLACE ANTENNA TILT MECHANISMS</td>
<td>83</td>
</tr>
<tr>
<td>G350 FABRICATE MINI-COAXIAL CABLES</td>
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<tr>
<td>G348 FABRICATE CABLE HARNESSSES</td>
<td>83</td>
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<tr>
<td>I429 ADJUST ANTENNA TILT</td>
<td>83</td>
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<tr>
<td>G346 CONSTRUCT CABLE TROUGHS</td>
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</tr>
<tr>
<td>G371 READ AND INTERPRET EQUIPMENT TECHNICAL MANUALS</td>
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<td>Q735 DRILL AND TAP HOLES FOR MOUNTING EQUIPMENT</td>
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</tr>
<tr>
<td>I450 REMOVE OR REPLACE ELEVATION DATA GENERATORS</td>
<td>83</td>
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<tr>
<td>G361 PERFORM GENERAL HOUSEKEEPING PROCEDURES</td>
<td>83</td>
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<tr>
<td>Q759 INVENTORY SCHEME MATERIALS</td>
<td>66</td>
</tr>
<tr>
<td>I445 REMOVE OR REPLACE ANTENNA PEDESTALS</td>
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</tr>
<tr>
<td>I447 REMOVE OR REPLACE ANTENNA SECTIONS</td>
<td>66</td>
</tr>
<tr>
<td>Q757 INSTALL OR REMOVE SYSTEM GROUNDS</td>
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</tr>
<tr>
<td>I446 REMOVE OR REPLACE ANTENNA REFLECTORS</td>
<td>66</td>
</tr>
<tr>
<td>C136 PERFORM VEHICLE INSPECTIONS</td>
<td>66</td>
</tr>
<tr>
<td>I427 ADJUST ANTENNA DRIVE SYSTEMS</td>
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</tr>
</tbody>
</table>

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TABLE A29

GROUP ID NUMBER AND TITLE: GRP014 - RADAR EVALUATION PERSONNEL

NUMBER IN GROUP: 26  PERCENT OF SAMPLE: 3%
MAJCOM DISTRIBUTION: AFCC (62%), TAC (15%), USAFE (8%), OTHER (15%)
LOCATION: CONUS (89%), OVERSEAS (11%)
DAFSC DISTRIBUTION: 30352 (38%), 30372 (62%)
AVERAGE GRADE: E-6  AVERAGE MONTHS IN SERVICE: 172
AVERAGE MONTHS IN CAREER FIELD: 151

GROUP DIFFERENTIATING TASKS

R793 EVALUATE RADARS AND ASSOCIATED EQUIPMENT  69
R790 EVALUATE FEDERAL AVIATION ADMINISTRATION (FAA) AND CONTRACT RADARS  61
A27 PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS  61
C93 EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS  57
R791 EVALUATE PERFORMANCE OF NEWLY INSTALLED EQUIPMENT  57
B84 WRITE CORRESPONDENCE OR MESSAGES  46
B50 COMPILE INFORMATION FOR REPORTS OR STAFF STUDIES  42
C85 ANALYZE TRENDS IN SYSTEM MALFUNCTIONS  38
A38 REVIEW DRAFTS OF REGULATIONS, MANUALS, OR OTHER DIRECTIVES  38
R794 EVALUATE SOLAR COLLECTION AND REDUCTION DATA  34
R788 EVALUATE ANNULAR SUBCLUTTER VISIBILITY PHOTOGRAPHS  34
R789 EVALUATE CLUTTER PHOTOGRAPHS  34
R796 PERFORM SOLAR BORESIGHT AND AZIMUTH ORIENTATION CHECKS  30
E200 LOCATE INFORMATION IN TECHNICAL, STANDARD, OR SUPPLY PUBLICATIONS  30
C127 PERFORM EQUIPMENT INSPECTIONS  30
E267 REVIEW CORRESPONDENCE  30
R797 PREPARE SOLAR COLLECTION AND REDUCTION REPORTS  30
R792 EVALUATE PROTOTYPE OR MODIFIED EQUIPMENT  30
R787 DEVELOP EVALUATION OPERATING INSTRUCTIONS (EOI)  30
E214 MAINTAIN SECURITY FORMS ON SAFES, RECORDS, OR ROOMS  30
A15 DEVELOP WORK METHODS OR PROCEDURES  30
C87 CONDUCT MAINTENANCE INSPECTIONS  26
C725 CONDUCT SAGE TESTING  26
C113 EVALUATE TECHNICAL PERFORMANCE OF PERSONNEL  26
Q726 CONSOLIDATE SAGE TESTING RESULTS  26
A35 PREPARE BRIEFINGS  26
F330 RESEARCH MICROFICHE FILES FOR SUPPLY REQUISITION DATA  23
Q719 ANALYZE SEMIAUTOMATIC GROUND EQUIPMENT (SAGE) TESTING RESULTS  23
B55 COORDINATE FLIGHT CHECKS OF INSTALLED EQUIPMENT WITH CHIEF OF MAINTENANCE  23
C99 EVALUATE INSPECTION OR MAINTENANCE REPORTS  23
### TABLE A30

**GROUP ID NUMBER AND TITLE:** GRP175 – ELECTRONIC SYSTEMS ANALYST

**NUMBER IN GROUP:** 5  
**PERCENT OF CLUSTER:** 19%

**MAJCOM DISTRIBUTION:** AFCC (100%)  
**LOCATION:** CONUS (100%)

**DAFSC DISTRIBUTION:** 30352 (20%), 30372 (80%)

**AVERAGE GRADE:** E-6  
**AVERAGE MONTHS IN SERVICE:** 202

**AVERAGE MONTHS IN CAREER FIELD:** 156

<table>
<thead>
<tr>
<th>GROUP DIFFERENTIATING TASKS</th>
<th>PERCENT MEMBERS PERFORMING</th>
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<td>Q725 CONDUCT SAGE TESTING</td>
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<td>Q726 CONSOLIDATE SAGE TESTING RESULTS</td>
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<td>B70 IMPLEMENT SELF-INSPECTION PROGRAMS</td>
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<tr>
<td>Q719 ANALYZE SEMIAUTOMATIC GROUND EQUIPMENT (SAGE) TESTING RESULTS</td>
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<td>C85 ANALYZE TRENDS IN SYSTEM MALFUNCTIONS</td>
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<td>A35 PREPARE BRIEFINGS</td>
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<td>E259 PREPARE RECORDS OR GRAPHS, OTHER THAN TRAINING</td>
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<td>B84 WRITE CORRESPONDENCE OR MESSAGES</td>
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<td>A38 REVIEW DRAFTS OF REGULATIONS, MANUALS, OR OTHER DIRECTIVES</td>
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<td>E214 MAINTAIN SECURITY FORMS ON SAFES, RECORDS, OR ROOMS</td>
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<td>C93 EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS</td>
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<td>C137 PREPARE INSPECTION TREND ANALYSIS</td>
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<td>E200 LOCATE INFORMATION IN TECHNICAL, STANDARD, OR SUPPLY PUBLICATIONS</td>
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<td>C134 PERFORM SELF-INSPECTIONS</td>
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<td>B51 CONDUCT BRIEFINGS</td>
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<td>E265 REPORT COMMUNICATION OUTAGES</td>
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<td>A15 DEVELOP WORK METHODS OR PROCEDURES</td>
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<td>B61 DIRECT DEVELOPMENT OR MAINTENANCE OF STATUS BOARDS, GRAPHS, OR CHARTS</td>
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<td>R792 EVALUATE PROTOTYPE OR MODIFIED EQUIPMENT</td>
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<td>B68 IMPLEMENT SAFETY PROGRAMS</td>
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<td>Q724 CONDUCT OPERATIONAL TESTS OF NEWLY INSTALLED EQUIPMENT</td>
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<td>E267 REVIEW CORRESPONDENCE</td>
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GROUP ID NUMBER AND TITLE: GRP391 - RADAR EVALUATION SPECIALISTS

NUMBER IN GROUP: 5
PERCENT OF CLUSTER: 19%

MAJCOM DISTRIBUTION: AFCC (100%)
LOCATION: CONUS (100%)
DAFSC DISTRIBUTION: 30352 (80%), 30372 (20%)
AVERAGE GRADE: E-5
AVERAGE MONTHS IN SERVICE: 138
AVERAGE MONTHS IN CAREER FIELD: 115

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<tr>
<th>GROUP DIFFERENTIATING TASKS</th>
<th>PERCENT MEMBERS PERFORMING</th>
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<tr>
<td>R791 Evaluate performance of newly installed equipment</td>
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<tr>
<td>R793 Evaluate radars and associated equipment</td>
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<tr>
<td>R796 Perform solar boresight and azimuth orientation checks</td>
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</tr>
<tr>
<td>R797 Prepare solar collection and reduction reports</td>
<td>100</td>
</tr>
<tr>
<td>R790 Evaluate Federal Aviation Administration (FAA) and contract radars</td>
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<tr>
<td>R794 Evaluate solar collection and reduction data</td>
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<tr>
<td>L576 Perform RHI operational checks</td>
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<tr>
<td>L575 Perform plan position indicator (PPI) operational checks</td>
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<tr>
<td>K529 Perform radar receiving system operational checks using conventional test equipment</td>
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<tr>
<td>K530 Perform signal distribution system operational checks</td>
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<td>R787 Develop evaluation operating instructions (EOI)</td>
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<tr>
<td>R788 Evaluate annular subclutter visibility photographs</td>
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<tr>
<td>R789 Evaluate clutter photographs</td>
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<tr>
<td>T441 Perform antenna drive and control system operational checks</td>
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<tr>
<td>L573 Perform height finder operator duties, such as bisecting height targets on RHI displays</td>
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<tr>
<td>H410 Perform Radar transmitter operational checks</td>
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<td>R792 Evaluate prototype or modified equipment</td>
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<tr>
<td>G368 Perform power supply operational checks</td>
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<tr>
<td>I442 Perform antenna orientations, other than solar boresight and azimuth orientations</td>
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<td>N635 Perform facility routines with the AN/FYQ-47 common digitizers</td>
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<tr>
<td>G345 Calculate refractive indexes</td>
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<tr>
<td>I440 Measure antenna contours</td>
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<tr>
<td>K528 Perform radar receiving system operational checks using built-in test equipment (BITE)</td>
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<tr>
<td>G382 Verify cable terminators</td>
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<tr>
<td>L574 Perform operational checks of monitor or maintenance consoles</td>
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<td>C93 Evaluate compliance with performance standards</td>
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<td>C123 Perform acceptance inspections</td>
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<td>D149 Conduct OJT</td>
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<td>A27 Participate in meetings, such as staff meetings, briefings, conferences, or workshops</td>
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<td>A15 Develop work methods or procedures</td>
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**TABLE A32**

**GROUP ID NUMBER AND TITLE:** GRP214 - JOB CONTROLLERS  
**NUMBER IN GROUP:** 6  
**PERCENT OF SAMPLE:** 1%  
**MAJCOM DISTRIBUTION:** TAC (66%), AFCC (17%), USAFE (17%)  
**LOCATION:** CONUS (83%), OVERSEAS 17%  
**DAFSC DISTRIBUTION:** 30352 (83%), 30372 (17%)  
**AVERAGE GRADE:** E-4  
**AVERAGE MONTHS IN SERVICE:** 94  
**AVERAGE MONTHS IN CAREER FIELD:** 62

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<td>E280 UPDATE MMICS</td>
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<td>E215 MAINTAIN STATUS BOARDS OR JOB CONTROL BOARDS</td>
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<td>B51 CONDUCT BRIEFINGS</td>
<td>83</td>
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<tr>
<td>E270 REVIEW MAINTENANCE MANAGEMENT INFORMATION CONTROL SYSTEMS (MMICS) OUTPUT DATA</td>
<td>66</td>
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<td>A35 PREPARE BRIEFINGS</td>
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<tr>
<td>E189 DOCUMENT CANNIBALIZATION</td>
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<tr>
<td>E216 MAINTAIN STATUS RECORDS OR MAINTENANCE REQUIREMENT RECORDS</td>
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<tr>
<td>E265 REPORT COMMUNICATION OUTAGES</td>
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<tr>
<td>A8 DETERMINE WORK PRIORITIES</td>
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<tr>
<td>F334 REVIEW STATUS OF AWAITING PARTS (AWP) EQUIPMENT</td>
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<td>A27 PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS</td>
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<tr>
<td>G361 PERFORM GENERAL HOUSEKEEPING PROCEDURES</td>
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<tr>
<td>D149 CONDUCT OJT</td>
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<tr>
<td>B77 ORIENT NEWLY ASSIGNED PERSONNEL</td>
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<td>B73 INITIATE FOLLOW-UP ACTIONS ON WORK IN PROGRESS</td>
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<td>E193 ESTIMATE JOB DURATIONS</td>
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<td>F341 VALIDATE MISSION CAPABILITY (MICAP) REQUIREMENTS</td>
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<td>Q733 DISPATCH MAINTENANCE PERSONNEL</td>
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<td>E211 MAINTAIN MASTER EQUIPMENT IDENTIFICATION LISTINGS</td>
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<td>E187 DETERMINE AND ASSIGN CLASSIFICATION OF REPORTS</td>
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<tr>
<td>F333 REVIEW STATUS OF AWAITING MAINTENANCE (AWM) PARTS</td>
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<tr>
<td>E235 MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)</td>
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<tr>
<td>A44 SCHEDULE WORK ASSIGNMENTS AND PRIORITIES</td>
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<td>B75 INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES</td>
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<tr>
<td>C138 REVIEW MAINTENANCE DATA COLLECTION (MDC) FORMS</td>
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<td>F330 RESEARCH MICROFICHE FILES FOR SUPPLY REQUISITION DATA</td>
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<td>F290 ESTABLISH SUPPLY REQUIREMENTS</td>
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<tr>
<td>B81 SUPERVISE APPRENTICE AC&amp;W RADAR SPECIALISTS (30332)</td>
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<td>C140 WRITE APR</td>
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A32
TABLE A33

GROUP ID NUMBER AND TITLE: GRP040 - INSTRUCTOR PERSONNEL
NUMBER IN GROUP: 33  PERCENT OF SAMPLE: 4%
MAJCOM DISTRIBUTION: ATC (94%), AFCC (3%), TAC (3%)
LOCATION: CONUS (100%)
DAFSC DISTRIBUTION: 30352 (67%), 30372 (33%)
AVERAGE GRADE: E-5  AVERAGE MONTHS IN SERVICE: 102
AVERAGE MONTHS IN CAREER FIELD: 96

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<td>D152 CONDUCT TECHNICAL SCHOOL CLASSROOM TRAINING</td>
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<td>D177 PREPARE LESSON PLANS</td>
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<tr>
<td>D158 DEVELOP FORMAL COURSE CURRICULA, PLANS OF INSTRUCTION (POI), OR SPECIALTY TRAINING STANDARDS (STS)</td>
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<tr>
<td>D169 EVALUATE PROGRESS OF TECHNICAL SCHOOL STUDENTS</td>
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<tr>
<td>D181 WRITE TEST QUESTIONS</td>
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<tr>
<td>D161 DEVELOP PERFORMANCE TESTS</td>
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<td>D163 DEVELOP TRAINING AIDS</td>
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<tr>
<td>D154 COUNSEL TRAINEES ON TRAINING PROGRESS</td>
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<tr>
<td>D155 DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION</td>
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<td>A27 PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS</td>
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<td>B59 COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED PROBLEMS</td>
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<td>C120 INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS</td>
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<td>D176 PREPARE INSTRUCTION TRAINING AREAS OR FACILITIES</td>
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<td>D178 PURCHASE TRAINING AIDS, SPACE, OR EQUIPMENT</td>
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<td>D150 CONDUCT SAFETY TRAINING</td>
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<td>D172 MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS</td>
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<td>D170 EVALUATE TRAINING METHODS OR TECHNIQUES</td>
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<td>D145 ADVISE UNIT STAFF PERSONNEL ON TRAINING MATTERS</td>
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<td>C134 PERFORM SELF-INSPECTIONS</td>
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<td>D148 BRIEF PERSONNEL ON TRAINING METHODS OR PROCEDURES</td>
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<td>D162 DEVELOP TECHNICAL SCHOOL COURSE OR CAREER DEVELOPMENT COURSE (CDC) CURRICULUM MATERIALS</td>
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<td>E200 LOCATE INFORMATION IN TECHNICAL, STANDARD, OR SUPPLY PUBLICATIONS</td>
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<td>D175 PREPARE COURSE CONTROL DOCUMENTS</td>
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<td>E219 MAINTAIN TECHNICAL ORDER FILES</td>
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<td>D151 CONDUCT SECURITY TRAINING</td>
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<td>D174 PREPARE CHANGES TO COURSE SUMMARY DOCUMENTS AND COURSE OBJECTIVE DOCUMENTS</td>
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<td>C113 EVALUATE TECHNICAL PERFORMANCE OF PERSONNEL</td>
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<td>F312 MAKE ENTRIES ON AF FORMS 1297 (TEMPORARY ISSUE RECEIPT)</td>
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<td>Group Differentiating Tasks</td>
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<td>D177 Prepare Lesson Plans</td>
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<td>D152 Conduct Technical School Classroom Training</td>
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<td>D144 Administer Or Score Tests</td>
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<td>D181 Write Test Questions</td>
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<td>D158 Develop Formal Course Curricula, Plans Of Instruction (POI), Or Specialty Training Standards (STS)</td>
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<td>D161 Develop Performance Tests</td>
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<td>D163 Develop Training AIDS</td>
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<td>D169 Evaluate Progress Of Technical School Students</td>
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<td>D155 Demonstrate How To Locate Technical Information</td>
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<td>D178 Procure Training Aids, Space, Or Equipment</td>
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<td>A27 Participate In Meetings, Such As Staff Meetings, Briefings, Conferences, Or Workshops</td>
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<td>B59 Counsel Personnel On Personal Or Military-Related Problems</td>
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<td>C134 Perform Self-Inspections</td>
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<td>D162 Develop Technical School Course Or Career Development Course (CDC) Curriculum Materials</td>
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<td>D154 Counsel Trainees On Training Progress</td>
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<td>D150 Conduct Safety Training</td>
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<td>C120 Inspect Personnel For Compliance With Military Standards</td>
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<td>D145 Advise Unit Staff Personnel On Training Matters</td>
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<td>D176 Prepare Instruction Training Areas Or Facilities</td>
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<td>E219 Maintain Technical Order Files</td>
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<td>D151 Conduct Security Training</td>
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<td>D170 Evaluate Training Methods Or Techniques</td>
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<td>B72 Implement Unit Emergency Or Disaster Plans</td>
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<td>A35 Prepare Briefings</td>
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<td>A34 Plan Unit Emergency Procedures</td>
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<td>A39 Review Unit Emergency Or Disaster Plans</td>
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<td>A31 Plan Safety Programs</td>
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<td>B68 Implement Safety Programs</td>
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<tr>
<td>D159 Develop Mobilization Training</td>
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<tr>
<td>D171 Maintain Study Reference Files</td>
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TABLE A35

GROUP ID NUMBER AND TITLE: GRP202 - ELECTRONIC PRINCIPLES INSTRUCTORS

NUMBER IN GROUP: 6

PERCENT OF CLUSTER: 18%

MAJCOM DISTRIBUTION: ATC (100%)

LOCATION: CONUS (100%)

DAFSC DISTRIBUTION: 30352 (83%), 30372 (17%)

AVERAGE GRADE: E-4, E-5  AVERAGE MONTHS IN SERVICE: 98

AVERAGE MONTHS IN CAREER FIELD: 76

GROUP DIFFERENTIATING TASKS

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<th>Task Description</th>
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<td>D152 CONDUCT TECHNICAL SCHOOL CLASSROOM TRAINING</td>
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<tr>
<td>D177 PREPARE LESSON PLANS</td>
<td>83</td>
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<tr>
<td>D144 ADMINISTER OR SCORE TESTS</td>
<td>83</td>
</tr>
<tr>
<td>D169 EVALUATE PROGRESS OF TECHNICAL SCHOOL STUDENTS</td>
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<tr>
<td>D176 PREPARE INSTRUCTION TRAINING AREAS OR FACILITIES</td>
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<td>C120 INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS</td>
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<td>D150 CONDUCT SAFETY TRAINING</td>
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<tr>
<td>D158 DEVELOP FORMAL COURSE CURRICULA, PLANS OF INSTRUCTION (POI),</td>
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<tr>
<td>OR SPECIALITY TRAINING STANDARDS (STS)</td>
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<tr>
<td>D172 MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS</td>
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<tr>
<td>E236 MAKE ENTRIES ON AFTO FORMS 350 (REPAIRABLE ITEM PROCESSING TAGS)</td>
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<td>D165 DIRECT OR IMPLEMENT TRAINING PROGRAMS OTHER THAN OJT</td>
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<td>D149 CONDUCT OJT</td>
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<tr>
<td>B59 COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED PROBLEMS</td>
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<td>B77 ORIENT NEWLY ASSIGNED PERSONNEL</td>
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<tr>
<td>D163 DEVELOP TRAINING AIDS</td>
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<tr>
<td>D181 WRITE TEST QUESTIONS</td>
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<tr>
<td>D162 DEVELOP TECHNICAL SCHOOL COURSE OR CAREER DEVELOPMENT COURSE (CDC) CURRICULUM MATERIALS</td>
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<td>D161 DEVELOP PERFORMANCE TESTS</td>
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GROUP ID NUMBER AND TITLE: GRP251 - SUPPORT INSTRUCTOR PERSONNEL  
NUMBER IN GROUP: 8  
PERCENT OF CLUSTER: 24%  
MAJCOM DISTRIBUTION: ATC (88%), AFCC (12%)  
LOCATION: CONUS (100%)  
DAFSC DISTRIBUTION: 30352 (63%), 30372 (37%)  
AVERAGE GRADE: E-5  
AVERAGE MONTHS IN SERVICE: 105  
AVERAGE MONTHS IN CAREER FIELD: 91  

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<tr>
<th>GROUP DIFFERENTIATING TASKS</th>
<th>PERCENT MEMBERS PERFORMING</th>
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<tr>
<td>D177 PREPARE LESSON PLANS</td>
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<tr>
<td>D144 ADMINISTER OR SCORE TESTS</td>
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<td>D158 DEVELOP FORMAL COURSE CURRICULA, PLANS OF INSTRUCTION (P01) OR SPECIALTY TRAINING STANDARDS (STS)</td>
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<tr>
<td>D161 DEVELOP PERFORMANCE TESTS</td>
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<td>D181 WRITE TEST QUESTIONS</td>
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<td>D152 CONDUCT TECHNICAL SCHOOL CLASSROOM TRAINING</td>
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<td>D169 EVALUATE PROGRESS OF TECHNICAL SCHOOL STUDENTS</td>
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<td>E200 LOCATE INFORMATION IN TECHNICAL, STANDARD, OR SUPPLY PUBLICATIONS</td>
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<tr>
<td>D154 COUNSEL TRAINEES ON TRAINING PROGRESS</td>
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<td>D163 DEVELOP TRAINING AIDS</td>
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<td>D178 PROCURE TRAINING AIDS, SPACE, OR EQUIPMENT</td>
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<td>E204 MAINTAIN COUNSELING FORMS</td>
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<td>D145 ADVISE UNIT STAFF PERSONNEL ON TRAINING MATTERS</td>
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<td>D170 EVALUATE TRAINING METHODS OR TECHNIQUES</td>
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<td>D148 BRIEF PERSONNEL ON TRAINING METHODS OR PROCEDURES</td>
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<td>A27 PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS</td>
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<td>D172 MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS</td>
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<tr>
<td>F312 MAKE ENTRIES ON AF FORMS 1297 (TEMPORARY ISSUE RECEIPT)</td>
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<td>D157 DETERMINE TECHNICAL SCHOOL TRAINING REQUIREMENTS</td>
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<td>D175 PREPARE COURSE CONTROL DOCUMENTS</td>
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<td>D174 PREPARE CHANGES TO COURSE SUMMARY DOCUMENTS AND COURSE OBJECTIVE DOCUMENTS</td>
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<td>C134 PERFORM SELF-INSPECTIONS</td>
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<tr>
<td>B75 INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES</td>
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END

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