## NAVAL POSTGRADUATE SCHOOL Monterey, California



## 1990 NAVAL AVIONICS CENTER SCIENTIST AND ENGINEER PROFILE

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# 1990 NAVAL AVIONICS CENTER 

## SCIENTIST AND ENGINEER

## PROPTTE

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PREPARED BY
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## I . INIRODUCTION

## A. OBJECTIVES AND BACRGROUND

Personnel turnover has become a major concern to those who have an interest in organizational behavior. Turnover results in considerable costs to individuals as well as organizations. Consequently much research concerning the phenomena of turnover has been aone, including studies on both civilian and military communlties. Many of these studies have concentrated on the role played by job satisfaction in the turnover process.

The loss of experienced personnel creates "holes" in the organizational structure that must be filled by enticing an adaıtıonai experienced individual to remain with, or join, the orqanization. Attrition aiso has a "domino effect" on initial recrultinc anc retention of personnel, because upper level vacancies move down the orqanizational hierarchy as personnel are promoted upwards to fill them. This practice exacerbates the tralning problem by creating more vacancies, which requires more training of personnel to fill them, which costs money and involves a suistantial amount of administration. Eventually, the vacancy reaches the bottom of the hierarchy, where it is then filled by a fresn recruit. Civilian organizations can fill vacancies using laterai entry replacements who may already possess the skills
required for the position to be filled. Of course some amount of attrition is necessary and expected; however to minimize manpower costs, the attrition of dedicated experienced personnel should be minimized.

Turnover is a complex subject. To say that the decision to stay or leave a particular work place can be explained or predicted by the relationship between one or two variables is simply avoiding evidence that states otherwise. The literature supports the contention that turnover is related to age (or tenure), demographic, economic, satisfaction, and commitment factors, as weli as expectations concerning alternative employment and certain aspects of one's current job. In addition, it appears that the decisıon is not truly an individual one, since the perceptions of famly members (or significant others), and peers, can influence the process. This further complicates the picture, since it is difficult to model or measure the effects of such influences.

The majority of the research surrounding civilian turnover focuses on the relationship between satisfaction or commitment and turnover, as moderated by tenure, phase of life, or economic condrtions. Little mention is made regarding the influence of biographical factors such as marriage or number of dependents. It is likeiy that these factors do influence the civilian turnover decision.
specifically, the goal of this project is to assess the factors affecting job related satisfaction and career
orientation and development of the scientist and engineer communities at the Naval Avionics Center.

## B. THE NAVAL AVIONICS CENTER

The Naval Avionics Center is located in Indianapolis, Indiana. As of March 1989, the Naval Avionics Center employed 3,320 permanent civilian personnel, 1149 of which were degreed scientists or engineers. The vast majority of these personnel are found in five of the nine departments that comprise the Center's organization. (A basic organization chart is provided as Appendix A.) These departments are "200" (Manufacturing Technology), "400" (Product Integrity and Assurance), "700" (Technical and Operations Support), " 800 " (Systems and Technology), and "900" (Engineering). As civil servants, they are salaried employees who are paid on standard regional government GS/GM pay scales.

The center's mission is "to conduct research, aevelopment, enaineerina, material acquisition, pilot and inmited manufacturing, technical evaluation, depot maintenance, and integrated logistic support on assigned airborne electronics (avionics), missile, space-borne, under sea and surface weapon systems and related equipment" [Naval Avionics Business Plan]. It is a subordinate command of the Naval Air Systems Command and is typical of many large mılitary industrial facilities, in that it has a small miiitary staff (13 in this case) responsible for a larae
civilian labor force. Although it is technically a government facility, the Center competes for much of its work using the standard competitive bidding procedures for government contracts. Those departments that are "light-loaded" may even accept outside work. In these respects, the Center is much like any privately operated industrial activity.

As part of an organizational effectiveness study of the Naval Avionics Center being conducted by the staff of the Naval Postgraduate School Administrative Science Department, the issues of job facet satisfaction and career development, particularly of engineers and scientists, were identified as concerns by the staff. As expressed in the Center's own overview statement
the Center invests in a strong personnel training program designed to foster technical and managerial skills especially attuned to addressing the Navy's airborne electronics issues of today and tomorrow. In order to stay abreast of new philosophies in the systems acquisition process and the rapid advances in avionics technologies, the center continually invests in the upgrading of its personnel's capabilities.

As a result of these resource investment strategies, the center has assembled an impressive array of professional and skilled personnel combined with wellequipped physical facilities. [Naval Avionics Business Fian]

In liaht of this personnel philosophy, which involves substantial investments in training and experience, turnover has an especially devastating effect on the Center's ability to stay abreast of technology and exploit the very strategy that it is attempting to build upon. Therefore, job related
aspects which affect turnover and the turnover decision are of direct concern to personnel managers.

AIthough the Center does administer "leaver surveys" to departing employees, this data is not systematically retained and analyzed in any files. As a result, there is little or no useful historical data for use as a reference to determine the basic reasons for turnover or retention at the center. This also makes it next to impossible to determine the demographics of those leaving the Center, in terms of age, experience, and training. Figures on overall turnover are available, and they indicate that in the first two quarters of fiscal year 1989, attrition of engineers and scientists was running at 6.1 percent, 63 percent of which was due solely to voiuntary resignation. Recruitment to replace those personnel मeaving the Center is done on a piecemeal basis, with recruits beirec procured as vacancies occur.

## II. METHODOLOGY

Several studies have noted direct relationships between stated intention to quit and turnover behavior. Additional studies have identified various economic, satisfaction, and biodemographic factors that influence the turnover process.

In order to study projected turnover and its determinants at the Naval Avionics Center, a survey was administered to a representative sample of the population. (A copy of the survey is provided as Appendix B.) The survey was developed using the 1985 DOD Survey of Officer and Enlisted Personnel and the Naval Personnel Research and Development study Frediction of Turnover Intentions Among Civilian Engineers Empioyea at Navy Industriai Facilities [NPRDC, 1981] as a Dasis for constructing questions to measure those factors deemed relevant by the literature. In most cases the auestions were taken wora for wora from the references, nowever, there were some questions that were reworded to make them more specific to Naval Avionics. Another difference in the survey developed for administration at the Center is that in all questions requirina scaled answers, the respondents used a five point or seven point Likert type scale for their response. The DOD Survey used five point, seven point, and
ten point scales, which often seemed confusing. In the interest of ease and consistency, as well as the absence of any requirement for finer measurement in the responses, the five and seven point scales were used throughout the survey. In addition, in order to ensure consistent answers, some questions were asked in two different ways. The answers were checked for consistency and no deviations were found.

The survey sample was chosen by the staff at the Naval Avionics center. The only requirement asked of the center was that respondents possess at least two and not more than 14 years of federal service at the center, and that the sample be selected randomly, and representative of the distribution of engineers and scientists at the center. The center attempted this by first determining the number of endineers and scientists in each department, and then proportionally aliocating 200 surveys throughout the organization. The result was a stratified random sample. The surveys were administered through representatives in each department, and coilected either by the researchers on the site or by the personnel office. The survey was completely confidential. No identifying marks were reguested or usea, and to ensure confidentiality, the respondents were provided with a large manila envelope and asked to return the survey insià the sealed envelope.

Of the 200 surveys disseminated, 174 were returned, which equates to a response rate of 87 percent. The survey was
administered to male and female respondents. Responses were manually entered into a computer database for analysis.

Frequency analysis was conducted to determine the relative feelings of the respondents for each area sampled. These findings were then used, along with analysis of means, to compare group responses for males, females, and by department. In the analysis sections that follow, five different areas are analyzed: demographics, job related factors, work group factors, general factors, and career development factors. Each section has frequency distribution tables for it's particular questions, along with numerical analysis of the tables. At the end of each section is a section summary.

This section profiles several important demographic characteristics of the sample population at the beginning of fiscal year 1990.
A. AGE (AGE)

The mean age of the entire sample was 32.2 years. The youngest respondent was 24 years old, the oldest was 63. The distribution of ages exhibited a negative skew, as the sample population tended towards younger ages-- the vast majority (85\%) were between the ages of 25 and 40 . Table 1 shows the frequency distributions, for aqe, of the overall sample, maies only, females only, and by department.

TABLE 1
AGE DISTRIBUTION (\%)
Gender
Department

| Age Group(yrs) | Overall male female | 200 | 400 | 700 | 800 | 900 |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 32.2 | 32.6 | 29.8 | 32.1 | 31.4 | 35.5 | 29.5 | 32.7 |
| under 25 | 3 | 3 | 0 | 0 | 4 | 0 | 2 | 7 |
| $25-30$ | 44 | 45 | 73 | 52 | 44 | 33 | 74 | 37 |
| $31-35$ | 27 | 28 | 15 | 35 | 30 | 26 | 15 | 34 |
| $36-40$ | 12 | 10 | 8 | 4 | 11 | 15 | 9 | 9 |
| over 40 | 14 | 14 | 4 | 9 | 11 | 26 | 0 | 23 |

As can be seen, the male population closely parallels the overall sample, as $85 \%$ of the sample is male. The female population tends to be younger than the male population (mean age 29.8 versus 32.6 ), with less than half as many over 36 personnel and a
much larger proportion of under 30 personnel. Department 800 is the youngest of the departments, while department 700 is the oldest, with a mean age of six years more than 800.
B. GENDER (GENDER)

Table 2 shows the gender distribution by department. In the overall sample, $85 \%$ of the respondents were male.

TABLE 2
GENDER DISTRIBUTION (\%)
Department

| Gender | overall | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | ---: | ---: | ---: | ---: | ---: |
| Nale | 174 | 23 | 27 | 27 | 46 | 45 |
| Eemale | 85 | 78 | 82 | 100 | 83 | 84 |
|  | 15 | 22 | 18 | 0 | 17 | 16 |

ILe department 700 sample was comprised entirely of males. Department 200 had the largest proportion of female respondents. Eュant of the respondents did not indicate the department worked Ior.
C. MARITAL (MARRY) and DEPENDENTS (DEP) STATUS

Table 3 indicates that $67 \%$ of the sample was married. Females were more likely to be married than males. Departments 200 and 800 had the largest married populations, department 400 had the smailest.

Table 4 provides the distribution of non-spouse dependents. Over half of the sample population had no dependents. Males were more likely than females to have dependents. Department 900 personnel were the most likely to have dependents, department 800 the least likely.

TABLE 3 MARITAL STATUS DISTRIBUTION (\%)

|  | Gender |  |  |  | Department |  |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | :---: |
| Maritai Status | overall | male female | 200 | 400 | 700 | 800 | 900 |  |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 45 |  |
| Married | 67 | 66 | 73 | 74 | 56 | 59 | 72 |  |
| Not Married | 33 | 34 | 27 | 26 | 44 | 41 | 28 |  |

TABLE 4
DEPENDENT DISTRIBUTION (\%)
D. EDUCATION LEVEL (EDUC)

Every respondent in the sample possessed at least a bachelors deqree. Masters degrees were held by 13\%, doctoral degrets by 1\%. Eenales tended to be more highly educated than their małe counterparts, with more than twice the percentage of postgraduate degrees. Department 700 had the most highly educated population, department 900 had the only doctorates. Table 5 presents the education level
distribution. Note that a score of 3 is equivalent to a B.S. degree, 4 is an M.S. degree, and 5 is a PhD.

TABLE 5
EDUCATION LEVEL DISTRIBUTION (\%)

|  | Gender |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| Degree held | overall | male female | 200 | 400 | 700 | 800 | 900 |  |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.2 | 3.1 | 3.3 | 3.1 | 3.1 | 3.2 | 3.1 | 3.1 |
| BS $(=3)$ | 85 | 88 | 73 | 91 | 85 | 78 | 87 | 91 |
| MS $(=4)$ | 13 | 11 | 23 | 9 | 15 | 22 | 13 | 7 |
| PhD $(=5)$ | 1 | 1 | 4 | 0 | 0 | 0 | 0 | 2 |

E. YEARS OF SERVICE (LOS)

The mean length of service at Naval Avionics was 6.3 years. Tre distribution was negatively skewed, with a majority of the respondents having less then six years at the Center. Males tended to have longer service than did females by an average of 0.7 years. Ail cit the respondents with at least 13 years of service were maies. Department 900 had the most senior work force; 22 \% had at Least io years of service and over $40 \%$ had at least seven years at the Center. Department 700 had the least senior work force, with
 presents the length of service distribution.

TABLE 6
YEARS OF SERVICE DISTRIBUTION (\%)
Gender Department

| Years of service overall | male female | 200 | 400 | 700 | 800 | 900 |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 6.3 | 6.4 | 5.7 | 6.3 | 6.1 | 5.2 | 6.1 | 6.7 |
| $=3$ | 21 | 22 | 19 | 17 | 26 | 30 | 13 | 24 |
| $4-6$ | 43 | 41 | 50 | 44 | 26 | 55 | 57 | 34 |
| $7-9$ | 20 | 20 | 23 | 30 | 33 | 8 | 19 | 18 |
| $10-12$ | 12 | 12 | 8 | 9 | 15 | 4 | 9 | 15 |
| $\rangle=13$ | 4 | 5 | 0 | 0 | 0 | 3 | 2 | 9 |

F. PAYGRADE (PAYGR)

Table 7 presents the distribution of paygrades. A majority of the sample were at the GS-11 or GS-12 level, with a mean of GS11.6. A bottleneck: appears between GS-12 and GS-13, with $47 \%$ of the sample at the former and only 5 at the latter. Males tended to have higher paygrades than females, with more than half of the femaies at GS-II and only 4 a $a t$ the $G S-I 3$ or above level and more than half of the male population at GS-12 or above. AII GS-13 and above billets were filled by males.

## TABLE 7

PAEGREDE DISTPIBUTION (\%)
Gender Department

| Paygrait | Overall | male female | 200 | 400 | 700 | 800 | 900 |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 11.6 | 11.6 | 11.5 | 11.3 | 11.7 | 11.8 | 11.6 | 11.6 |
| 9 | 2 | 3 | 0 | 4 | 4 | 0 | 2 | 0 |
| 11 | 43 | 41 | 54 | 61 | 22 | 37 | 41 | 55 |
| 12 | 47 | 48 | 42 | 26 | 74 | 56 | 52 | 36 |
| 13 | 5 | 5 | 4 | 9 | 0 | 4 | 4 | 7 |
| $>13$ | 3 | 3 | 0 | 0 | 0 | 3 | 0 | 2 |

## G. EXPECTED LENGTH OF SERVICE (XPECTLOS)

The distribution for expected additional years of service at Naval Avionics is presented in Table 8. The distribution exhibits a negative skew, with a majority (66\%) of the sample population expecting to work at the Center less than six more years. Interestingly, for all sample groups, a significant proportion (1522\%) intend to remain at the Center for at least 15 more years. This probably equates to retirement. Department 200 has the lowest average expected additional service, 6.5 years; while department 700 has the highest, 7.4 years, or almost one full year more.

TABLE 8
EXPECTED YEARS OF SERVICE DISTRIBUTION (\%)

| Expectea |  | Gender |  | Department |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Y上ars of service | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| r | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mear | 7.2 | 7.2 | 7.2 | 6.5 | 7.1 | 7.4 | 6.9 | 7.2 |
| <1 | 9 | 10 | 4 | 5 | 7 | 4 | 12 | 11 |
| 1-2 | 33 | 31 | 44 | 45 | 34 | 33 | 32 | 30 |
| 4-6 | 24 | 24 | 20 | 23 | 25 | 25 | 19 | 27 |
| $7-9$ | 10 | 11 | 0 | 9 | 7 | 15 | 16 | 2 |
| 10-15 | 6 | 6 | 12 | 0 | 11 | 7 | 2 | 9 |
| $>=10$ | 18 | 18 | 20 | 18 | 15 | 15 | 19 | 21 |

Aithough males and females had the same mean expected lenath of service, the distributions varied, with a larger percentage of females either intending to quit in the near future or stay at least 10 years.
H. SPOUSE EMPLOYMENT STATUS (SPSEWORK)

Of those sampled who were married, three quarters had spouses employed outside of the home. All of the married females had spouses who were employed, while two-thirds of the married males had employed spouses. Department 700, which is mostly male, had the lowest number of employees with working spouses. Departments 200 and 400, with higher proportions of females, had the highest number with employed spouses.

TABLE G
SPOUSE EMPLOYMENT STATUS DISTPIBUTION (\%)
Gender Department

| Employment Status | overall | male female | 200 | 400 | 700 | 800 | 900 |  |
| :--- | :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $I_{1}$ | 174 | 147 | 25 | 23 | 27 | 27 | 46 | 45 |
| Employed outside homt | 75 | 64 | 100 | 82 | 80 | 53 | 79 | 76 |
| Not employea | 25 | 36 | 0 | 18 | 20 | 47 | 21 | 24 |

I. PUFSUIT OF ALTERNATE EMPLOYMENT (JOBSEEF )

I relatively small percentage of the sample population had actively sought employment outside of the center within the past year. Eemaies were more likely to seek such opportunities than were males. Department 200 was the most likely to search, with almost twice as many respondents searching for other jobs than in department 900, the least likely to look.

TABLE 10
PURSUIT OF ALTERNATIVE EMPLOYMENT DISTRIBUTION (\%)
Gender Department

| Job Search Status overall male female | 200 | 400 | 700 | 800 | 900 |  |  |  |
| :--- | :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| Searched for alternate | 22 | 21 | 27 | 30 | 22 | 19 | 26 | 16 |
| Did not search | 78 | 79 | 73 | 70 | 78 | 81 | 74 | 84 |

J. DEPARTMENT (DEPT)

Table 11 presents the breakdown of respondents by department. A total of 4 respondents did not indicate which department they worked in. A total of 1 person did not provide data on gender or department. Gender breakdown is not provided for department 070 , and no further analysis is done on this department, due to the smaii sample size.

TABLE 11
IEPARTMENT DISTRIBUTION (\%)

Gender

| aepartment | Overall | male | female |
| :--- | ---: | ---: | :---: |
| $n$ | 174 | 147 | 26 |
| 072 | 2 | $X$ | $X$ |
| 205 | 23 | 18 | 5 |
| 400 | 27 | 22 | 5 |
| 700 | 27 | 27 | 0 |
| 800 | 46 | 38 | 8 |
| 900 | 45 | 38 | 7 |
| unt. | 4 | 2 | 1 |

This section profiles several important job related characteristics of the sample population at the beginning of fiscal year 1990.
A. SATISFACTION WITH CURRENT JOB (SATJOB)

A majority of the respondents were satisfied with the jobs they were working in. Males tended to be more satisfied than did females. Departments 200, 700, and 800 respondents were, on averagt, all very satisfied with their jobs, with almost threefourths of those surveyed in each department indicatinc they were satisfied. Conversely, those personnel sampled from departments 40. and 900 were less satisfied, with over one-third of their sampled populations indicating that they were dissatisfied with their current job. In ali sampled groups, the mean tended towards "satısfied" witn the current job.

TABIE 12
SATISFACTION WITH CURRENT JOB DISTRIBUTION (\%)

|  | Gender |  |  |  |  | Department |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | ---: | ---: | :---: |
| responst | Overall | male | female | 200 | 400 | 700 | 800 | 900 |  |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |  |
| mean | 4.8 | 4.9 | 4.3 | 5.2 | 4.4 | 5.2 | 4.8 | 4.6 |  |
| Satisfled | 65 | 68 | 50 | 74 | 56 | 70 | 72 | 60 |  |
| neutral | 7 | 7 | 8 | 8 | 11 | 11 | 2 | 4 |  |
| dissatisfied | 27 | 25 | 42 | 18 | 33 | 19 | 26 | 36 |  |

B. LIKE CURRENT JOB (JOBLIKE)

At least twice as many respondents in every sample group stated that they liked their job. In departments 200 and 700, at least seven times as many people liked their jobs as disliked their jobs. Males tended to like their job more than did females, which had the lowest like job to dislike job ratio of any sample group, with twice as many liking their jobs as disliking their job.

TABLE 13
IIKE CURRENT JOB DISTRIBUTION (\%)

|  | Gender |  |  |  |  | Department |  |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: | :---: |
| response | overali | male | female | 200 | 400 | 700 | 800 | 900 |  |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |  |
| mear. | 5.0 | 5.1 | 4.5 | 5.3 | 4.6 | 5.4 | 4.9 | 4.9 |  |
| aqret | 72 | 74 | 61 | 83 | 63 | 85 | 72 | 67 |  |
| neutral | 7 | 6 | 8 | 4 | 7 | 4 | 6 | 9 |  |
| disaqree | 21 | 20 | 31 | 13 | 30 | 11 | 22 | 24 |  |

C. SATISEACTION WITH FSSIGNMENT STABILITY (SATSTAB)
learly two-thirds of the respondents in every sampled aroup statec that they were satisfied with the stability in their assiamments. Males and females had similar feelings concerning stabiiity; both groups were slightly satisfied. Department 700 personnel were the most satisfied with assignment stability, department 900 personnel were the least satisfied.

TABLE 14
SATISFACTION WITH STABILITY DISTRIBUTION (\%)

|  | Gender |  |  |  |  |  |  |  |
| :--- | ---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| $n$ | 172 | 145 | 26 | 22 | 27 | 27 | 46 | 44 |
| mean | 4.9 | 4.9 | 4.9 | 5.0 | 5.0 | 5.2 | 4.9 | 4.7 |
| satisfied | 64 | 64 | 61 | 68 | 63 | 74 | 61 | 59 |
| neutral | 22 | 21 | 27 | 23 | 30 | 19 | 24 | 14 |
| dissatisfied | 14 | 15 | 12 | 9 | 7 | 7 | 15 | 27 |

D. SATISFACTION WITH JOB SECURITY (SATJBSEC)

An overwhelming majority of those sampled were satisfied with their job security. Department 700 was the only sample population to have iess than a $90 \%$ satisfaction rate. Department 900 was the only department to have any personnel who were actualiy dissatisfiea with job security. There were no females dissatisfied with job security.

TABLE 15
SATISEACTIOIV WITH JOB SECUPITY DISTRIBUTICT (\%,

Gender
Department
$\begin{array}{lrrrrrrrr}\text { response } & \text { overail. maie } & \text { female } & 200 & 400 & 700 & 800 & 900 \\ \text { n } & 174 & 147 & 26 & 23 & 27 & 27 & 46 & 45 \\ \text { mear } & 5.0 & 6.0 & 6.2 & 5.8 & 6.4 & 5.9 & 5.2 & 5.8 \\ \text { satisfied } & 89 & 89 & 92 & 91 & 95 & 85 & 91 & 84 \\ \text { neutrai } & 10 & 10 & 8 & 9 & 4 & 15 & 9 & 11 \\ \text { dissatisfied } & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 5\end{array}$
E. SATISEACTION WITH OPPORTUIITIES TO WORF WITH STATE OF THE ART EQUIPMENT (SATHITCH)

A majority of those sampled were satisfied with the opportunities that they had to work with state of the art hiah technol-
ogy equipment. Females tended to be siightly more satisfied than males, on average. Department 200 and 400 personnel were very satisfied with their opportunities, with nearly four times as many personnel indicating satisfaction as indicating dissatisfaction. Department 900 personnel were the least satisfied.

TABLE 16
SATISEACTION WITH TECHNOLOGY DISTRIBUTION (\%)
Gender Department

| response | overall | male female | 200 | 400 | 700 | 800 | 900 |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
|  | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 4.7 | 4.6 | 5.0 | 5.0 | 5.0 | 4.7 | 4.6 | 4.3 |
| satisfied | 61 | 59 | 50 | 70 | 74 | 59 | 56 | 53 |
| neutral | 15 | 15 | 19 | 9 | 11 | 11 | 17 | 20 |
| cissatisfied | 24 | 26 | 31 | 21 | 15 | 30 | 27 | 27 |

E. SAOISERCTION WITH CAREER PATH OPPORTUNITIES (SATCRPTH)

Less than one-third of those sampled indicated that they were satisfred with career path opportunities at the Center (see section VII for further clarification). Males tended to be more satisfied than did their female counterparts. Department 200 personnel were most satisfied with the career path opportunities available, departments 700 and 900 personnel were the least satisfied. In aeneral, the means tended towards dissatisfaction.

TABLE 17
SATISFACTION WITH CAREER PATH DISTRIBUTION (\%)
Gender Department

| response | overal | mal | female | 200 | Dep | too | 800 | 00 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| n | 173 | 146 | 26 | 23 | 27 | 27 | 45 | 45 |
| mean | 3.5 | 3.5 | 3.7 | 4.0 | 3.8 | 3.3 | 3.4 | 3.3 |
| satisfied | 29 | 31 | 23 | 39 | 37 | 26 | 27 | 22 |
| neutral | 17 | 15 | 27 | 26 | 18 | 11 | 13 | 20 |
| dissatisfied | 54 | 54 | 50 | 35 | 45 | 63 | 60 | 58 |

G. SATISFACTION WITH OPPORTUNITIES TO ACCOMPLISH SOMETHING WORTHWHILE (SATACCMP)

Most respondents felt that the tasks and jobs they were doing were accomplishing something worthwhile. Males tended to feel this more than did femaies. Departments 200 and 700 were most satisfied with their opportunities to accomplish worthwhile tasks, department 900 personnel were least satisfied with their opportunities. In ail cases, ezcept females and department 900, twice as many responaerts were satisfied as were dissatisfied.

TABLE 18
SATISEACTION WITH OPPOPTUNITY TO ACCOMPLISH DISTRIBUTION (\%)
Gender Department

| responst | overall | male female | 200 | 400 | 700 | 800 | 900 |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| n | 172 | 145 | 26 | 23 | 27 | 27 | 44 | 45 |
| mear | 4.5 | 4.6 | 4.4 | 4.9 | 4.6 | 4.9 | 4.4 | 4.2 |
| satisfied | 59 | 61 | 50 | 70 | 59 | 70 | 57 | 47 |
| neutral | 11 | 10 | 12 | 9 | 11 | 11 | 9 | 13 |
| dissatisfied | 30 | 29 | 38 | 21 | 30 | 19 | 34 | 40 |

H. SATISFACTION WITH OPPORTUNITIES FOR PROFESSIONAL GROWTH (SATGRWTH)

Roughly two-thirds of the sample population was satisfied with the opportunities available to experience professional learning and growth. Males were only slightly more satisfied than females. Satisfaction with growth opportunities was consistent across departmental bounds. In all cases, the mean tended towards satisfaction. Less than one-third of those samples in any sample population were dissatisfied with the available growth opportunities.

TABLE 19
SATISEACTION WITH GROWTH DISTRIBUTION (\%)

|  | Gender |  |  | Department |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| resecnse | overai̇ | male | female | 200 | 400 | 700 | 800 | 900 |
| $n$ | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mear | 4.7 | 4.7 | 4.7 | 4.8 | 4.6 | 4.8 | 4.6 | 4.6 |
| satisfied | 62 | 63 | 58 | 64 | 59 | 63 | 65 | 58 |
| neutrȧ | E | 8 | 8 | 4 | 15 | 4 | 6 | 9 |
| dissatisfied | 30 | 29 | 34 | 30 | 26 | 33 | 29 | 33 |

I. OFGAINIZATION IMPORTANT (ORGIMPRI)

A iarae majority of those sampled indicated that what happened to tre center was realiy important to them. At least three-fourths of tre sample populations of each group indicated this to be true. Department 400 had the largest percentage of those who disagreed.

TABLE 20 OPGANIZATION IMPORTANT DISTRIBUTION (\%)

Gender Department

| response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | ---: | :---: | ---: | ---: | ---: | ---: | ---: |
| $n$ | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 5.5 | 5.5 | 5.6 | 5.7 | 5.3 | 5.3 | 5.5 | 5.7 |
| agree | 83 | 82 | 85 | 87 | 74 | 74 | 83 | 87 |
| neutral | 9 | 9 | 11 | 9 | 11 | 18 | 8 | 6 |
| disagree | 8 | 9 | 4 | 4 | 15 | 8 | 9 | 7 |

J. FEEL PERSONALLY RESPONSIBLE FOR WORK (WKRESP)

An overwhelming majority of the respondents, independent of sample group, indicated that they felt responsible for the worl: they $\dot{\text { iica. Department } 700 \text { had the lowest acreement rate, yet had }}$ an eiaht-to-one aqree-disaaree ratio. The entire sample population in aepartment 200 felt responsibility for their owr work. Females feit more responsibility than did their male colleadues.

TABLE 21
EEEL RESPONSIBIE FOP WORF. DISTRIBUTION (\%)

| response | Gender |  |  | Department |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | orerall | male | Eemale | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 40 | 45 |
| mear. | E. 0 | 5.9 | 6.2 | 6.3 | 5.8 | 5.7 | 6. 1 | 6.0 |
| aare= | 93 | 92 | 96 | 100 | 89 | 85 | 95 | 91 |
| neutra- | 2 | 2 | 4 | 0 | 7 | 4 | 2 | 0 |
| disaaree | 5 | 6 | 0 | 0 | 4 | 11 | 2 | 9 |

Fi. SAIISEACIION WITH FREEDOM ON THE JOB (SATFREE)
f. Ieast three-fourths of those sampled in every sample population felt satisfied with the amount of on the job freedom
allowed to them. Males and females had identical distributions. Department 200 personnel were the most satisfied, with no one who was sampled indicating dissatisfaction with job freedom; department 700 had the fewest number of satisfied employees, and department 900 had the largest percentage of dissatisfied employees. In all cases, the mean was between "slightly satisfied" and "satisfied".

TABLE 22
SATISFACTION WITH FREEDOM ON THE JOB DISTRIBUTION (\%)

|  | Gender |  |  |  |  | Department |  |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: | :---: |
| response | overall | male | female | 200 | 400 | 700 | 800 | 900 |  |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |  |
| mean | 5.7 | 5.6 | 5.8 | 6.0 | 5.8 | 5.6 | 5.5 | 5.6 |  |
| satisfied | 74 | 75 | 75 | 96 | 89 | 74 | 83 | 85 |  |
| neutrai | 9 | 8 | 8 | 4 | 7 | 15 | 13 | 2 |  |
| dissatisfied | 7 | 7 | 7 | 0 | 4 | 11 | 1 | 13 |  |

L. SATISEACIION WITH PARTICIPATION IN DECISION PROCESS (SATDECPT)

I majority of those polled indicated that they were satisfied with their opporturities to be a part of the decision process. The percertage of satisfied personnel was two to six times more than the percentage of dissatisfied personnel, except in departments 700 and 900, and females. In all cases, the mean tended towards slight satisfaction (see section $V$ "work groups" for further discussion on decision involvement).

TABLE 23
SATISFACTION WITH DECISION PROCESS DISTRIBUTION (\%)

|  | Gender |  |  |  | Department |  |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 4.6 | 4.6 | 4.3 | 4.8 | 5.1 | 4.4 | 4.6 | 4.3 |
| satisfied | 56 | 58 | 50 | 61 | 71 | 56 | 57 | 49 |
| neutral | 16 | 16 | 15 | 22 | 18 | 7 | 15 | 15 |
| dissatisfied | 28 | 26 | 35 | 17 | 11 | 37 | 28 | 35 |

M. SATISFACTION WITH TRAINING OPPORTUNITIES (SATTRAOP)

Nearly two-thirds of those sampled were satisfied with the opportunities available to receive training. Department 800 personnel were the least satisfied.

TABLE 24
SATISEACTION WITH TRAINING OPPORTUNITIES DISTRIBUTION (\%)

| response | Gender |  |  | Department |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mear | 4.7 | 4.7 | 4.7 | 4.8 | 4.7 | 4.9 | 4.3 | 4.9 |
| satisfied | 56 | 64 | 65 | 70 | 63 | 67 | 54 | 71 |
| neutrai | 6 | 8 | 0 | 4 | 7 | 12 | 5 |  |
| dıssatusfied | 28 | 26 | 35 | 26 | 30 | 22 | 41 | 2 |

N. SATISFACTION WITH CO-WORRERS (SATCOWF)

A large majority of the sample population was satisfied with their co-workers and work groups (see section $V$ for further explanation). Department 400 had the lowest percentage of satisfiec personnel, department 800 had the highest percentade of dissatisfied personnel. Department 200 personnel were the most
satisfied with their co-workers, with no one indicating that they were dissatisfied.

TABLE 25
SATISFACTION WITH COWORKERS DISTRIBUTION (\%)

|  | Gender |  |  |  |  | Department |  |  |  |
| :--- | ---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: | :---: |
| response | overall | male | female | 200 | 400 | 700 | 800 | 900 |  |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |  |
| mean | 5.5 | 5.5 | 5.5 | 5.7 | 5.3 | 5.6 | 5.5 | 5.5 |  |
| satisfied | 78 | 78 | 77 | 91 | 67 | 81 | 83 | 76 |  |
| neutral | 13 | 13 | 15 | 9 | 22 | 11 | 4 | 15 |  |
| dissatisfied | 9 | 9 | 8 | 0 | 11 | 8 | 13 | 9 |  |

SUMMARY OF GENERAJ JOE RELATED ASPECTS (TABLES 12 THROUGH 25)

In general, the survey population liked their jobs and were satisfaed with them as well. In addition, most personnel were saさisf2ed with their assianment stability, the opportunity to work. witn hiar technology, freedom on the job, opportunity to accomplish somethina worthwhile, and opportunities for growth. co-workers and traininc opportunities were also sources of satisfaction; the opportunity to participate in the decision process was only somewnat of a satisfier. Employees sampled overwhelminaly felt personal responsibility for their work, and that the organization was important to them. The only downbeat aspect was that career path opportunities were not satisfactory to a large portion of the sample.
O. SATISFACTION WITH PAY (SATPAY)

Less than one-third of those sampled were satisfied with the pay they received (see section VI for further information). Females tended to be slightly more satisfied than were their male counterparts. Personnel in department 400 were the most satisfied with pay, yet there were still more people dissatisfied than were satisfied. Department 800 personnel were the least satisfied, with a greater than 3-to-1 ratio of dissatisfied-to-satisfied employees. In ali cases, the mean tended towards dissatisfaction.

TABLE 26 SATISEACTION WITH PAY DISTRIBUTION (\%)

Gender Department

| response | overall | male female | 200 | 400 | 700 | 800 | 900 |  |
| :--- | :---: | :---: | :---: | :---: | ---: | ---: | ---: | ---: |
| r | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mear | 3.5 | 3.5 | 3.7 | 3.4 | 4.0 | 3.3 | 3.2 | 3.6 |
| satisfied | 30 | 29 | 35 | 30 | 41 | 33 | 22 | 29 |
| neurral | 12 | 13 | 12 | 9 | 15 | 15 | 8 | 18 |
| dissatisfied | 58 | 58 | 53 | 61 | 44 | 52 | 72 | 53 |

P. PAY EQUITABLE EOR WORE PEREORMED (PAYEQUIT)

Less than one-third of those sampled felt that pay was equitabie for the work and tasks performed. Males tended to believe this more than did females. Personnel in department 400 most felt that pay was equitable considering their effort and skiils, while personnel in department 700 were much more neaative in their views on pay equity.

TABLE 27
PAY IS EQUITABLE DISTRIBUTION (\%)
Gender Department

| response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | ---: | :--- | ---: | ---: | ---: | ---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.3 | 3.3 | 3.6 | 3.3 | 4.1 | 2.9 | 3.1 | 3.4 |
| agree | 27 | 26 | 31 | 17 | 41 | 15 | 28 | 31 |
| neutral | 14 | 14 | 15 | 30 | 15 | 15 | 2 | 13 |
| disagree | 59 | 60 | 54 | 53 | 44 | 70 | 70 | 56 |

Q. SATISFACTION WITH FRINGE BENEFITS (SATBEN)

In general, more people were satisfied with fringe benefits at the Center than were dissatisfied. Females were slightly more satisfied than were maies. Departments 400 and 700 had the largest Dercentade of satisfied personnel; department 900 had the worst satisfied-to-dissatisfied ratio, with an equal percentage of each.

TABLE 28
SATISEACTIOI WITH ERINGE BENEFITS DISTRIBUTION (\%)

| responst | Gender |  |  | Department |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | overail | male | Iemale | 200 | 400 | 700 | 800 | 900 |
| $n$ | $17 \leq$ | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mear | 4.2 | 4.2 | 4.4 | 4.1 | 4.7 | 4.4 | 4.3 | 3.9 |
| satisiled | 55 | 53 | 58 | 52 | 63 | 6.3 | 57 | 44 |
| neutral | 9 | 8 | 11 | 4 | 4 | 4 | 13 | 12 |
| dissatzsfied | 37 | 39 | 31 | 44 | 33 | 33 | 30 | 44 |

K. SAIISEACTION WITH CURRENT BONUS SYSTEM (SATBONUS)

Very few employees at NAC were satisfied with the bonus system that was in place. Dissatisfied-to-satisfied ratios ranged from a low of $3-t o-1$ (for department 700, the most satisfied department)
to a high of $7-t o-1$ (for department 200). In all cases, the mean was between "dissatisfied" and "slightly dissatisfied".

TABLE 29
SATISFACTION WITH BONUS SYSTEM DISTRIBUTION (\%)

Gender Department

| response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | ---: | :--- | ---: | ---: | ---: | ---: | ---: |
| $n$ | 172 | 146 | 25 | 23 | 26 | 26 | 46 | 45 |
| mean | 2.8 | 2.9 | 2.5 | 2.8 | 3.1 | 3.1 | 2.7 | 2.7 |
| satisfied | 12 | 14 | 12 | 9 | 8 | 15 | 15 | 14 |
| neutral | 27 | 27 | 28 | 26 | 42 | 39 | 15 | 22 |
| dissatisfied | 61 | 59 | 60 | 65 | 50 | 46 | 70 | 64 |

S. WILI RECEIVE BONUS/RAISE FOR PERFORMANCE (BONUSOP)

Very few of those polled felt that they were likely to receive a bonus or pay raise for good performance in the near future. Maies tended to feel that they were more likely to recelve such kudos than did females. Department 700 personnel most felt that they were likely to have such opportunities, yet more than tnree tines as many felt that they were unlibely to receive tinem as felt tnat they were likely to receive them. Department 800 personnel feit least likely to receive bonuses or raises. In all cases, the mean tended towards unlikely.

TABLE 30
BONUS/RAISE OPPORTUNITY DISTRIBUTION (\%)

|  | Gender |  |  |  | Department |  |  |  |
| :--- | :---: | :---: | :---: | :---: | ---: | ---: | ---: | ---: |
| response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| $n$ | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 2.2 | 2.2 | 2.0 | 2.2 | 2.1 | 2.3 | 2.0 | 2.2 |
| likely | 15 | 16 | 11 | 13 | 18 | 22 | 9 | 16 |
| neutral | 16 | 16 | 12 | 13 | 15 | 7 | 19 | 20 |
| unlikely | 69 | 68 | 77 | 74 | 67 | 71 | 72 | 64 |

T. SATISFACTION WITH PROMOTION OPPORTUNITIES (SATPRMOP)

Approximately one-third of those polled indicated that they were sarisfied with their promotion opportunities. Males were more satisfied than their female colleagues with such opportunities. Department 700 personnel felt a much higher satisfaction level than did their counterparts. In all cases, the mean tended towards dissatısfaction.

TABLE 31
SATISEECTION WITH PROMOTION OPPORTUNITIES DISTRIBUTION (\%)

| responst | Gender |  |  |  | Department |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| I. | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mear | 3.6 | 3.7 | 3.2 | 3.7 | 3.6 | 3.9 | 3.5 | 3.5 |
| satisfred | 30 | 32 | 23 | 22 | 30 | 45 | 28 | 29 |
| neutrai | 17 | 17 | 15 | 30 | 15 | 7 | 17 | 16 |
| dissatisfied | 53 | 51 | 62 | 48 | 55 | 48 | 55 | 55 |

U. WILL BE PROMOTED (PROMOOP)

Only approwimately one-fourth of those sampled felt that it was likely that they would eventually be promoted. Males and
females felt equally unlikely that they would be promoted. Department 400 personnel most felt that they would likely be promoted; it was the only group with less than a 2-to-1 ratio of personnel who felt they were unlikely be promoted to those who felt they would likely be promoted. Two-thirds of department 700 felt that it was unlikely that they would be promoted.

TABLE 32
WILL BE PROMOTED DISTRIBUTION (\%)

|  | Gender |  |  |  | Department |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 25 | 23 | 27 | 27 | 46 | 45 |
| mear | 2.5 | 2.5 | 2.5 | 2.6 | 2.7 | 2.2 | 2.5 | 2.6 |
| likeiy | 26 | 26 | 27 | 22 | 33 | 22 | -9 | 27 |
| neutral | 20 | 20 | 19 | 26 | 18 | 11 | 17 | 20 |
| uniikeiy | 54 | 54 | 54 | 52 | 49 | 67 | 64 |  |

## SUMMAEY OF COMPENSATION AND PROMOTIOI ASPECTS (TABLES 25 THPOUGH

In aeneral, the sampled employees were not satisfied with any of the compensatior or promotion aspects surveyed. Only approximately one-third of those sampled were satisfied with pay received, and less than one-third felt that pay was equitable for the skills needed and effort required on the job. One-sixth were satisfied with the current bonus system, and only one-fifth expected to receive a bonus or raise based on aood performance. Satisfaction with fringe benefits was slightly better, with just more than half of those sampled indicating that they were
satisfied. Approximately one-third of the population was satisfied with their promotion opportunities; yet only one-fourth feel that it is likely that they will be promoted.

There appears to be room for improvement in many areas of compensation. Althouah pay scales are fairly restricted, the bonus system may provide a method of increasing satisfaction. In addition, the low percentage of people expecting to be promoted indicates that many people may feel that they have reached the end of their useful careers at NAC, and that they may need to seek other employment. in that they do not feel that performance will be rewarded. This is also seen in the attitude that bonuses and raises (i.e., rewards) are not tied to performance. This may be sendina the wrong type of messade to employees-- performance is not rewardea.
V. COULA EINL BETTER JOB (BETTJOB)

An overwhelming majority of every sample population, with the exception of females, felt that it was likely that they could find a better job outside of NAC. Only one-third of the females sampled, as compared with $85 \%$ of the males, felt that they could fina a better job; half were unsure. In departments 700 and 800 there were no respondents who felt that it was unlikely that they couid find a better job.

TABLE 33
COULD FIND BETTER JOB DISTRIBUTION (\%)
Gender Department

| response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | ---: | :---: | ---: | ---: | ---: | ---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 4.2 | 4.2 | 4.1 | 4.0 | 4.3 | 4.3 | 4.2 | 4.2 |
| likely | 83 | 84 | 30 | 83 | 81 | 89 | 85 | 84 |
| neutral | 14 | 12 | 50 | 8 | 15 | 11 | 15 | 9 |
| unlikely | 3 | 4 | 19 | 9 | 4 | 0 | 0 | 7 |

W. PROBABLY LOOK FOR JOB IN NEAR FUTURE (JOBLOOFI)

Less than half of the sampled employees indicated that they intended to look for a new job outside of the center. Females indicated that they were more likely to look for such a job than were males, more of whom said that they would not loot: than said that they probably would look. Department 700, on averaae, had the Iowest probability of looking for a new job; departments 400 and 900 had the hiahest probability.

TABIE 34
LOOF. FOR NEW JOB DISTRIBUTION (\%)

| response |  | Gender |  | Departmerit |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | overal? | male | Eemale | 200 | 400 | 700 | 800 | 900 |
| 12 | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.9 | 3.9 | 4.0 | 4.0 | 4.1 | 3.6 | 3.8 | 4.1 |
| wili probably | O) 41 | 40 | 46 | 39 | 48 | 41 | 37 | 43 |
| neutral | 17 | 17 | 15 | 17 | 7 | 15 | 15 | 24 |
| wont look | 42 | 43 | 39 | 44 | 45 | 44 | 48 | 33 |

X. LOOK FOR JOB IN NEAR FUTURE (JOBLOOK2)

This question was asked as a verification for the preceding question. The answers for this question tended towards a neutral response and had a much more consistent distribution across sample groups.

```
TABLE 35
WILL LOOK FOR NEW JOB DISTRIBUTION (\%)
```

| response | Gender |  |  | Department |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 3.0 | 3.0 |
| likely | 34 | 33 | 38 | 35 | 44 | 37 | 31 | 31 |
| neutrai | 26 | 26 | 31 | 30 | 18 | 18 | 28 | 31 |
| unlikeiy | 40 | 41 | 31 | 35 | 38 | 45 | 41 | 38 |

Y. WILI REMAIN ET NRC AT LEASI FIVE MORE YEARS (STAYINT)

Approwimately one-third of the sample population thought that It was likely thet they would remain at the center at least five more years (the mean expected years of service remaining ranged from 5.5 to 7.4 years, see section III). Males tended to feel that בt was likely that they would stay more than did females, althouah, on average, females had a higher mean. Department 200, on averaqe, indicated the least likelihood of remaining five more years, even with over haif of the population feeling that they would likely stay such a time ( no one thought it very likely). In all cases, the mean was either neutral or tended towards unlikely.

TABLE 36
STAY AT NAC EIVE YEARS DISTRIBUTION（\％）
Gender Department

| response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| m mean | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| likely | 2.9 | 2.9 | 3.0 | 2.5 | 3.0 | 2.8 | 3.0 | 3.0 |
| neutral | 34 | 36 | 27 | 52 | 37 | 26 | 32 | 42 |
| unlikely | 31 | 29 | 38 | 26 | 30 | 41 | 35 | 24 |
|  | 35 | 35 | 35 | 22 | 33 | 33 | 33 | 34 |

Z．WILL REMAIN AT NAC UNTIL RETIREMENT（RETIRE）
Less than one－fifth of those sampled employees felt that it was likely that they would remain at the center until retirement． Males felt much more likely to retire at NAC than did females，who nad a 7－to－1 ratio for unlikely to retire to likely to retire．In all cases，there was at least a two－to－one unlikely－to－likely ratえこ。

TABLE 37
WILL RETIRE AT NAC DISTRIBUTION（\％）

| responst | Gender |  |  | Department |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 2.5 | 2.5 | 2.3 | 2.3 | 2.6 | $3 \cdot \mathrm{t}$ | 2.3 | 2.6 |
| iikei | 19 | 21 | $\varepsilon$ | 17 | 23 | $2=$ | 15 | 20 |
| neutrai | 33 | 31 | 38 | 35 | 37 | 37 | 22 | 33 |
| unlikeIy | 48 | 48 | 54 | 48 | 40 | 41 | E3 | 47 |

AA．OFTEN THINF OF QUITTING（THNKQUIT）
Une－third of the overall sample often thought of quitting their jobs．Females，who were the only aroup with a laraer
percentage of those who thought of quitting than those who did not， were much more likely to think of quitting than were males． Department 700 personnel were least likely to think of quitting by a large marain over any other department．

TABLE 38
THINK OF QUITTING OFTEN DISTRIBUTION（\％）

| response | Gender |  |  | Department |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.6 | 3.5 | 4.2 | 3.5 | 3.7 | 3.0 | 3.6 | 3.8 |
| agree | 33 | 29 | 54 | 30 | 41 | 11 | 37 | 33 |
| neutral | 16 | 17 | 8 | 17 | 11 | 22 | 13 | 16 |
| disagree | 51 | 54 | 38 | 53 | 48 | 67 | 50 | 47 |

AE．HZPI TC IEAVE JOE（JOBLEAVE）
Fouchly one－third of the employees sampled indicated that they felt that it would be difficult for them to leave NAC and their jobs even if they wanted to．Department 900 personnel particularly $f \in ⿱ 二 ⿺ 𠃊 ⿴ 囗 十 一$ that it would be difficult to leave，while personnel in departments 400 and 800 felt it would be somewhat less difficult．

TABLE 39
HARD TO LEAVE JOB DISTRIBUTION（\％）

| response | Gender |  |  | Department |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.6 | 3.6 | 3.5 | 3.7 | 3.3 | 3.9 | 3.2 | 3.9 |
| agree | 32 | 33 | 35 | 26 | 30 | 37 | 26 | 44 |
| neutral | 20 | 20 | 19 | 30 | 15 | 22 | 20 | 16 |
| disaaree | 48 | 47 | 46 | 44 | 55 | 41 | 54 | 40 |

In aeneral, even though an overwhelming majority of the surveyed population felt that they could find better jobs elsewhere, less than half were inclined to look for such opportunities in the near future. Roughly one-third of the sample population felt that they would find it difficult to leave NAC, for whatever reason, and only a similar percentage indicated that they even thought of quitting very often. People appear to feel some tie(s) to NAC that make it hard for them to leave, or even search for, the better jobs that they feel are waiting outside of NAC.

Females tend to feel less attachment to the center than do males; they intend to look for jobs more, fewer intend to remain at the Center for another five years, and even fewer intend to remain until retiremert.
A.C. POOE COMMUNICATIONS WITHIN NAC (COMMS)

An overwhelmina percentage of the sample population aqreed that there was poor communications within the center.

TABLE 40
COMMUNICATIONS POOR DISTRIBUTION (\%)

|  | Gender |  |  |  |  | Department |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | ---: | ---: | :---: |
| response | overall | male | female | 200 | 400 | 700 | 800 | 900 |  |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |  |
| mean | 6.0 | 6.0 | 6.0 | 6.0 | 5.7 | 6.6 | 5.9 | 6.1 |  |
| agree | 91 | 91 | 92 | 87 | 85 | 96 | 91 | 96 |  |
| neutral | 5 | 6 | 0 | 4 | 7 | 4 | 7 | 2 |  |
| disaree | 4 | 3 | 8 | 9 | 8 | 0 | 2 | 2 |  |

AD. WILL RECEIVE FEEDBACK FROM SUPERVISOR (FEEDBACK)
A majority of those sampled felt that they would be likely to receive supervisor feedback concerning their performance. Males tended to feel this more than did females. Personnel in department 400 felt more likely to receive feedback than did their colleagues; while personnel in department 900 felt much less likely to receive such feedback.

TABLE 41 WILI RECEIVE FEEDBACK DISTRIBUTION (\%)

|  | Gender |  |  |  | Department |  |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| response | Overall | male | female | 200 | 400 | 700 | 800 | 900 |
| $n$ | 173 | 147 | 25 | 22 | 27 | 27 | 46 | 45 |
| mean | 3.6 | 3.7 | 3.5 | 3.8 | 3.9 | 3.8 | 3.6 | 3.3 |
| Iikely | 62 | 64 | 56 | 64 | 70 | 67 | 63 | 51 |
| neutral | 18 | 16 | 28 | 18 | 19 | 18 | 20 | 16 |
| uninely | 20 | 20 | 16 | 18 | 11 | 15 | 17 | 33 |

AE. MANAGEMENT MAKEES JOB EASIER (MGMT)
Approximately two-thirds of the sample population felt that manacement did not mar:e doina their jobs easier. Department 400 most felt that manaqement did make the job easier, with a roughly equal distribution of responses. In all other cases, at least three times as many respondents felt that management did not make the job easier as felt that management did make the job easier. Department 700 had the most negative view of management. Females nad a less positive view of management than did males (see section

VII, Career Development, for more comments on management as a career anchor and as a career path).

TABLE 42
MANAGEMENT MAKES JOB EASIER DISTRIBUTION (\%)

> Gender Department

| response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | ---: | :---: | ---: | ---: | ---: | ---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.1 | 3.1 | 2.8 | 2.9 | 3.8 | 2.6 | 3.1 | 2.9 |
| agree | 22 | 23 | 16 | 21 | 30 | 18 | 22 | 20 |
| neutral | 15 | 16 | 8 | 9 | 37 | 4 | 11 | 13 |
| disagree | 63 | 61 | 76 | 70 | 33 | 78 | 67 | 67 |

AF. ENOUGH VARIETY ON THE JOB (JOBVAR)
Most of the sampled population are satisfied with the amount of variety emperienced on the job. Personnel in department 400 were much less satisfied with job variety than were their counterparts. In all cases, the mean tended towards satisfaction wich job variety.

TABLE 43
ENOUGH VARIETY ON THE JOB DISTRIBUTION (\%)
Gender Department

| response | overail | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
|  | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 5.0 | 5.0 | 4.7 | 5.2 | 4.2 | 5.4 | 4.9 | 5.2 |
| agree | 71 | 71 | 69 | 83 | 52 | 78 | 57 | 75 |
| neutral | 9 | 10 | 0 | 4 | 4 | 15 | 11 | 7 |
| disagree | 20 | 19 | 31 | 13 | 44 | 7 | 22 | 18 |

AG. ENOUGH CHALLENGE ON THE JOB (JOBCHLNG)
In all cases, a majority of the respondents were happy with the amount of challenge experienced on the job. Males tended to find more challenge than did females. Department 400 personnel agreed least that their jobs provided enough challenges by a large margin when compared with the other departments. Department 700 most felt that their jobs provided enough challenges by a wide margin over the other departments.

TABLE 44
ENOUGH CHALLENGE ON THE JOB DISTRIBUTION (\%)

| response | Gender |  |  | Department |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mear. | 5.0 | 5.0 | 4.4 | 5.0 | 4.3 | 5.7 | 5.1 | 4.8 |
| aaree | 74 | 76 | 61 | 74 | 52 | 93 | 78 | 69 |
| neutral | 7 | 7 | 4 | 13 | 11 | 0 | 9 |  |
| disaoree | 19 | 17 | 35 | 13 | 37 | 7 | 13 | 27 |

AH. TOC MUCH STPESS ON THE JOB (JOBSTRSS)
Less than one-third of the respondents felt that there was too mucr stress associated with their jobs. Males tended to view their jobs as more stressful than did females. Department 700 personnel found their jobs much more stressful than did any other department.

TABLE 45
TOO MUCH STRESS ON THE JOB DISTRIBUTICN (\%)

|  | Gender |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 173 | 146 | 26 | 23 | 27 | 27 | 46 | 44 |
| mean | 3.7 | 3.8 | 3.5 | 3.4 | 3.4 | 4.1 | 3.9 | 3.7 |
| agree | 29 | 30 | 23 | 22 | 18 | 52 | 28 | 25 |
| neutral | 26 | 26 | 27 | 26 | 26 | 4 | 37 | 29 |
| disagree | 45 | 44 | 50 | 52 | 56 | 44 | 35 | 46 |

AI. FAMILY WOULD BE BETTER OFF IF LEFT NAC (BETTOFF)
Approximately one-third of those polled felt that their families would be better off if they left NAC. Males tended to believe this much more than did females. Department 900 had the largest percentage of personnel who believed this was true. Less than one-fifth of the respondents in any group believed that it was unlikely that their families would be better off. (see Table 65, section VI for comparison analysis)

TABLE 46
FAMILY WOULD BE BETTER OFF DISTRIBUTION (\%)
Gender Department

| response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.2 | 3.2 | 3.3 | 3.3 | 3.2 | 3.3 | 3.1 | 3.4 |
| likely | 33 | 36 | 20 | 35 | 26 | 37 | 26 | 47 |
| neutral | 48 | 44 | 65 | 48 | 52 | 48 | 52 | 37 |
| unlikely | 19 | 20 | 15 | 17 | 22 | 15 | 22 | 16 |

## SUMMARY OF TABLES 40 TO 46

Almost everyone sampled felt that communications within the Center were poor. In addition, while most felt that they would receive supervisor feedback, they also felt that management did not make their jobs any easier to accomplish. Most were satisfied with the level of challenge and amount of variety experienced on the job: few felt that their jobs were overly stressful. Males tended to feel the above listed feelings more than did females, although males did feel that they were subject to stress more than females did.

There appears to be a lack of respect for, and belief in, management as a whole. A large part of the problem may be due to the perceived communications difficulties. Challenges and job variety could be, and should be, used as selling points to prospective recruits. Stress does not appear to be much of a problem, except for department 700.

## V. WORK GROUPS

This section profiles several important work group characteristics of the sample population at the beginning of fiscal year 1990. The data is analyzed at the department and division levels.
A. DEPARTMENT

1. EEEL LIKE PART OF WORK GROUP (DPWKGP)

In general, most people seemed to feel that they were a part of their respective departmental work groups. Males tended to feel like they belonged more than did females. Results were consistent across all departments.

TABLE 47
PART OF WORK GROUP DISTRIBUTION (\%)
Gender Department

| response | Overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 4.6 | 4.6 | 4.1 | 4.4 | 4.5 | 4.6 | 4.5 | 4.5 |
| agree | 60 | 63 | 38 | 61 | 53 | 59 | 53 | 56 |
| neutral | 13 | 12 | 23 | 4 | 11 | 19 | 9 | 18 |
| disagree | 27 | 25 | 39 | 35 | 26 | 22 | 28 | 26 |

2. NEW IDEAS "CLOBBERED" (DPIDEAS)

A majority of the respondents felt that new ideas were not immediately shot down. Department 700 personnel felt the least able to present new ideas, with an equal number of respondents feeling that new ideas were accepted and that new ideas were "clobbered". More than twice as many respondents in department 700
as in any other department felt that new ideas mere not readily accepted. Males and females had similar feelinas concernina the acceptance of new ideas.

TABLE 48
NEW IDEAS "CLOBBERED" DISTRIBUTION (\%)
Gender Department

| response | overall male | female | 200 | 400 | 700 | 800 | 900 |  |
| :--- | :---: | ---: | :---: | ---: | ---: | ---: | ---: | ---: |
|  | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.2 | 3.3 | 3.0 | 2.9 | 3.1 | 3.8 | 3.2 | 3.3 |
| agree | 19 | 20 | 11 | 17 | 11 | 41 | 11 | 20 |
| neutral | 25 | 24 | 31 | 13 | 30 | 15 | 33 | 27 |
| disaqree | 56 | 56 | 58 | 70 | 59 | 44 | 56 | 53 |

3. GROUP GOALS CLEAR (DPGOALS)

A majority of the respondents did not feel that their departmental work group goals were clear. A much larger proportion of females Eelt this way than did males; only one-tenth of females and one-fifth of males felt that goals were clear. Departments 200 and 800 most felt that their departmental work group goals were clear: department 700 most felt that they lacked clear goals.

TABLE 49
CLEAR GOALS DISTRIBUTION (\%)
Gender Department

| response | overall male | female | 200 | 400 | 700 | 800 | 900 |  |
| :--- | :---: | :--- | :--- | :--- | :--- | ---: | ---: | ---: |
| n | 74 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.4 | 3.3 | 2.7 | 3.5 | 3.1 | 2.9 | 3.5 | 3.1 |
| agree | 21 | 22 | 11 | 26 | 15 | 11 | 29 | 18 |
| neutral | 17 | 20 | 4 | 30 | 18 | 15 | 17 | 11 |
| disagree | 62 | 58 | 85 | 44 | 67 | 74 | 54 | 71 |

4. INVOLVED IN DECISION MAKING (DEDECIS)

A majority of the respondents did not feel that they were involved in the decisions made that affected their work place and job. Females tended to support this view more than males. Departments 200 and 700 felt the least like they were involved in the decision process; departments 400 and 900 felt the most involved. In all cases, less than one-third of the respondents feit like they had a role in the decision making process.

TABLE 50
INVOLVED IN DECISION MAKING DISTRIBUTION (\%)
Gender Department

| response | overall male | female | 200 | 400 | 700 | 800 | 900 |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.0 | 3.0 | 2.5 | 2.7 | 3.2 | 2.5 | 3.0 | 3.0 |
| aqree | 20 | 22 | 12 | 9 | 22 | 11 | 24 | 29 |
| neutral | 8 | 9 | 4 | 9 | 15 | 7 | 9 | 2 |
| disagree | 72 | 69 | 84 | 82 | 63 | 32 | 67 | 69 |

5. AFRAID TO EXPRESS VIEWS (DPVIEWS)

Approximately one-third of the respondents agreed with the statement that some of their co-workers were afraid to express their views. Females tended to believe this more than did males. Departments 400 and 900 especially believed this to be true, while departments 200 and 800 tended to disagree, feeling that their coworkers were not afraid to express views.

TABLE 51
AFRAID TO EXPRESS VIEWS DISTRIBUTION (\%)
Gender Department

| response | Overall male | female | 200 | 400 | 700 | 800 | 900 |  |
| :--- | :--- | :--- | :--- | ---: | ---: | ---: | ---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.6 | 3.7 | 3.9 | 3.3 | 4.2 | 4.0 | 3.3 | 4.0 |
| agree | 34 | 33 | 38 | 17 | 44 | 33 | 24 | 47 |
| neutrai | 19 | 19 | 27 | 26 | 26 | 26 | 15 | 16 |
| disagree | 47 | 48 | 35 | 57 | 30 | 41 | 61 | 37 |

6. SOME COWORKERS LACK RESPECT (DPRESPCT)

Less than half of those sampled felt that some of their coworkers lacked respect for others. Females tended to feel that their coworkers were less respectful of others than did males. Department 400 appeared to have the most trouble with disrespectful employees, with over half of those sampled feeling that some coworkers were disrespectful to others. Departments 700 and 800 had the least problems with disrespect between co-workers.

TABLE 52
LACK RESPECT DISTRIBUTION (\%)
Gender Department

| response | Overall male | female | 200 | 400 | 700 | 800 | 900 |  |
| :--- | :--- | :--- | :--- | ---: | ---: | ---: | ---: | ---: |
| $n$ | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 4.0 | 4.0 | 4.5 | 4.0 | 4.3 | 4.0 | 3.8 | 4.2 |
| agree | 40 | 39 | 50 | 43 | 52 | 33 | 33 | 43 |
| neutral | 23 | 24 | 15 | 26 | 15 | 30 | 19 | 24 |
| disagree | 37 | 37 | 35 | 31 | 33 | 37 | 48 | 33 |

7. OPINIONS LISTENED TO (DPOPIN)

Approximately half of the respondents felt that everione's opinions were listened to within the departmental work group. Almost twice as many males felt this was true as did females. Department 700 least felt that opinions were listened to, departments 200 and 400 most felt that opinions were listened to.

TABLE 53
OPINIONS LISTENED TO DISTRIBUTION (\%)

|  | Gender |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | ---: | ---: | ---: |
| response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 4.2 | 4.3 | 3.5 | 4.2 | 4.4 | 3.7 | 4.2 | 4.2 |
| agree | 46 | 48 | 27 | 52 | 48 | 30 | 48 | 44 |
| neutral | 19 | 21 | 11 | 22 | 26 | 22 | 13 | 20 |
| disagree | 36 | 31 | 62 | 26 | 26 | 43 | 39 | 36 |

8. MORALE IS HIGH (DPMORALE)

A majority of the respondents felt that morale in their departmental work group was low. No females thought that morale was high. Department 700 appeared to have the biggest problems with morale, while departments 200 and 400 had the highest morale.

TABLE 54
MORALE IS HIGH DISTRIBUTION (\%)

|  | Gender |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | ---: | ---: | ---: |
| response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.3 | 3.3 | 2.5 | 3.2 | 3.3 | 2.8 | 3.1 | 3.1 |
| agree | 17 | 20 | 0 | 22 | 22 | 18 | 15 | 13 |
| neutral | 24 | 25 | 23 | 26 | 33 | 4 | 24 | 27 |
| disagree | 59 | 55 | 77 | 52 | 45 | 78 | 61 | 60 |

## DEPARTMENTAL WORK GROUP SUMMARY

Most respondents felt negatively towards the way that their departments' work groups were currently functioning. Although all departments were consistent in making their members feel like part of their respective groups, some departments appear to be having more difficulties than others on the subjects addressed by this survey. Work groups in department 700 appear to be having the most difficulty, with the worst scores for "new ideas getting clobberea", "clear goals", "involvement in the decision process", "opinions are listened to", and "morale" questions. By this same measure, work groups within departments 200 and 400 appear to be having the least difficulties, with high scores in all areas except for "participation in decisions" (200) and "clear goals" (400). Work groups in department 800 appear to be having problems with many are afraid to express their views, and many feel that their co-workers lack respect for others. Department 900 work groups scored poorly on "clobbered new ideas", "opinions listened to", and "morale"; but scored really well on "decision involvement" and "coworker respect".

## B. DIVISION

1. FEEL LIKE PART OF WORK GROUP (DVWKGP)

In general, people felt that they belonged to their respective divisional work groups. Personnel in department 200 tended
to feel this more than did the other departmerts. while department 800 felt it less.

TABLE 55
PART OF WORK GROUP DISTRIBUTION (\%)

|  | Gender |  |  |  | Department |  |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 4.5 | 4.6 | 4.6 | 4.8 | 4.5 | 4.7 | 4.5 | 4.6 |
| aqree | 61 | 61 | 58 | 69 | 63 | 63 | 57 | 60 |
| neutral | 12 | 11 | 19 | 9 | 11 | 4 | 17 | 9 |
| disagree | 27 | 28 | 23 | 22 | 26 | 33 | 26 | 31 |

2. IJEW IDEAS "CLOBBERED" (DVIDEAS)

In deneral, most respondents felt that new ideas were fairly well accepted, and not "clobbered". Males tended to feel that new ideas were clobbered more than did Eemales. Department. 700 personnel most believed that new ideas presented within their divisions were "clobbered" by a large marain over any other department; department 200 personnel most believed that new ideas were not "clobbered" by a large margin over the other departments. The overall means in every sample tended towards "disagreeing" that new ideas were clobbered.

TABLE 56
NEW IDEAS "CLOBBERED" DISTRIBUTION (\%)
Gender Department

| response | overall | male female | 200 | 400 | 700 | 800 | 900 |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| $n$ | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.3 | 3.3 | 2.8 | 2.8 | 3.1 | 3.6 | 3.2 | 3.2 |
| agree | 14 | 16 | 4 | 4 | 11 | 30 | 13 | 16 |
| neutral | 29 | 28 | 35 | 22 | 30 | 26 | 30 | 31 |
| disagree | 57 | 56 | 61 | 74 | 59 | 44 | 57 | 53 |

3. GROUP GOALS CLEAR (DVGOALS)

Less than one third of those sampled believed that their divisional goals were clear. Males tended to believe goals were clear by a large margin as compared with females, who believed by a 10-to-1 margin that goals were not clear. Department 200 personnel believed that their divisional goals were clear much more than did any other group; with equal numbers of respondents indicating that goals were clear and doals were unclear. In all other cases, there existed at least a $2.5-$ to-1 ratio of those who felt that goals were not clear to those who felt that they were clear. Department 400 personnel most felt that goals were unclear.

TABLE 57
GOALS CLEAR DISTRIBUTION (\%)

|  | Gender |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | ---: | ---: |
| response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.3 | 3.5 | 2.9 | 4.0 | 3.3 | 3.3 | 3.3 | 3.4 |
| agree | 25 | 27 | 8 | 35 | 15 | 22 | 24 | 24 |
| neutral | 19 | 21 | 11 | 30 | 22 | 19 | 13 | 20 |
| disagree | 56 | 52 | 81 | 35 | 63 | 59 | 63 | 56 |

4. INVOLVED IN DECISION MAKING (DVDECIS)

Overall, few of the respondents felt that they were actively involved in the decision making process within their respective divisions. Males, who had greater than a 2-to-1 ratio for those who felt not involved to those who felt involved, tended to feel more a part of the decision process than did females, who had a 20-to-1 ratio for not involved-involved. Department 900 personnel most felt involved in their divisional decisions. department 800 personnel least involved.

TABLE 58
INVOLVED IN DECISION MAKING DISTRIBUTION (\%)

|  | Gender |  |  |  | Department |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | ---: |
| response | overall | male | Eemale | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 2.9 | 3.1 | 2.5 | 3.1 | 3.1 | 2.8 | 2.7 | 3.4 |
| agree | 20 | 23 | 4 | 13 | 19 | 15 | 15 | 33 |
| neutral | 16 | 16 | 16 | 26 | 23 | 15 | 11 | 13 |
| disagree | 64 | 61 | 80 | 61 | 58 | 70 | 74 | 54 |

5. AFRAID TO EXPRESS VIEWS (DVVIEWS)

Less than one-third of those sampled felt that co-workers were afraid to express their views. Males and females had similiar views. Department 400 and 900 most felt that their co-workers were afraid to express their views within their respective divisions, while department 200 personnel most disagreed that there was fear. Department 400 was the only department in which more people felt that there was fear then felt that there was no fear. In all other
cases (with the exception of department 900, where a bare majority existed), at least twice as many respondents felt that there was no fear to express views within the division than felt that fear was present. For department 200, seven times as many felt that way.

TABLE 59
AFRAID TO EXPRESS VIEWS DISTRIBUTION (\%)
Gender Department

| response | overall male | female | 200 | 400 | 700 | 800 | 900 |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
|  | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.8 | 3.6 | 3.7 | 2.8 | 4.0 | 3.7 | 3.5 | 3.9 |
| aqree | 29 | 29 | 31 | 9 | 41 | 22 | 24 | 40 |
| neutral | 20 | 20 | 19 | 22 | 22 | 30 | 22 | 13 |
| disagree | 51 | 51 | 50 | 69 | 37 | 48 | 54 | 47 |

## 6. SOME COWORKERS LACK RESPECT (DVRESPCT)

In general, those sampled tended to agree that some of their co-workers lacked respect for others within the division. Females tended to believe this more than males. Departments 400 and 700 believed that their divisional co-workers lacked respect more than did members of other departments. Department 800 personnel tended to disagree that their co-workers lacked respect more than other departments did.

TABLE 60
LACK RESPECT DISTRIBUTION (\%)
Gender Department

| response | Overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 4.1 | 3.9 | 4.3 | 3.8 | 4.2 | 4.3 | 3.9 | 3.9 |
| agree | 40 | 39 | 46 | 43 | 48 | 44 | 37 | 34 |
| neutral | 20 | 20 | 19 | 22 | 15 | 26 | 15 | 24 |
| disagree | 40 | 41 | 35 | 35 | 37 | 30 | 48 | 42 |

7. OPINIONS LISTENED TO (DVOPIN)

In general, most respondents felt that their opinions were listened to within their respective divisional work groups. Maies tended to believe this more than did females, the only group in which over half of the sample population believed that their opinions were not listened to and in which the mean tended towards "disagree". Department 400 personnel felt that their opinions were heeded within their respective divisions by a much larger percentage than in any other department. Departments 700 and 800 least believed that their opinions were listened to within their divisions.

TABLE 61
OPINIONS LISTENED TO DISTRIBUTION (\%)

|  | Gender |  |  |  | Department |  |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 4.2 | 4.3 | 3.8 | 4.2 | 4.6 | 4.0 | 4.0 | 4.3 |
| agree | 48 | 49 | 38 | 43 | 63 | 44 | 39 | 49 |
| neutral | 19 | 21 | 8 | 26 | 11 | 19 | 24 | 16 |
| disagree | 33 | 30 | 54 | 31 | 26 | 37 | 37 | 35 |

8. MORALE IS HIGH (DVMORALE)

As with the department sample, most respondents did not feel that morale was high within their divisions. Males tended to believe that morale was higher than did females, yet less than onefourth of the males sampled classified morale within their divisions as "high". Ten times as many females felt that morale was low as felt that it was high. In every department sample there was at least twice as many who felt that morale was not high as those who felt that it was high. Department 800 personnel felt that their divisional morale was higher than did the other departments.

TABLE 62
MORALE IS HIGH DISTRIBUTION (\%)

|  | Gender |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.1 | 3.4 | 2.7 | 3.1 | 3.3 | 3.1 | 3.5 | 3.3 |
| agree | 21 | 24 | 8 | 13 | 22 | 22 | 24 | 20 |
| neutral | 26 | 28 | 15 | 35 | 30 | 15 | 24 | 29 |
| disagree | 53 | 48 | 79 | 52 | 48 | 63 | 52 | 51 |

## DIVISIONAL WORK GROUP SUMMARY

Most respondents felt negatively towards the way that their divisions were functioning. Although all divisions were consistent in making their members feel like part of the group, some departments appear to have divisions that were having more difficulties
than others on the subjects addressed by this surver. Department 700's divisions appear to experience the most difficulty, with the worst scores for the "new ideas getting clobbered" and "co-workers lack respect" areas, and poor scores for the "involvement in the decision process", "opinions are listened to", "clear goals", and "morale" questions. By this same measure, divisions within departments 200 and 900 appear to be having the least difficulties, with high scores in all areas except for "morale" (200) and "afraid to express views" (900). Divisions within department 800 appear to have problems with their involvement in making decisions and in having their opinions listened to. Divisions within department 700 scored poorly on "clobbered new ideas", "opinions listened to". "co-workers lack respect", "involvement in decisions", and "morale". Divisions within department 400 expressed problems with "clarity of divisional goals", "fear in expressing views", and "coworker lack of respect": but scored really well on "involvement in decisions", "morale", and "opinions listened to".

Comparison of the results for department work groups and divisional work groups by department provide some interesting results. The respondents tended to feel more a part of their division than they did for their departments by only a very slight margin-- means and distributions were similiar for all groups. Females were the only group which had a significantly larger percentage feeling that they were more a part of their division:
no group felt more a part of their departments. It is somewhat surprising that more people did not feel a part of the smaller, more intimate group-- the division-- than felt they were a part of the larger, more impersonal group.

Most sample populations felt that their divisional goals were clearer than their departmental goals. Only the respondents in department 800 felt that divisional goals were less clear than department goals.

There were differences between department and division level views concerning fear in expressing views, lack of co-worker respect, opinions being listened to, and morale. For fear in expressing views, department 800 was the only aroup which felt that there was more fear at the division level than at the department level. Departments 700 and 800 felt that co-workers at the divisional level had more problems with lack of respect than did co-workers at the department level. Department 800 was the only department which felt that opinions were listened to at the departmental level more than they were at the divisional level. All sample groups except for department 200 felt that morale was higher at the division level than at the department level. Department 800 was the only department that felt that there was more involvement in the decision process at the department level than at the division level. All of the sample populations felt that new ideas were clobbered at the department level more than

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they were at the division level.
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This section profiles several important general characteristics of working at Naval Avionics.
A. CENTER WIDE MORALE (NACMORALE)

Table 63 provides the response distribution for whether morale is high at NAC or not. The mean response for the entire sample was "slightly disagree". Males tended to think that morale was higher than did females. Morale was the highest in departments 400 and 900; the lowest in department 200. In all sample groups, less than one-third of the respondents thought morale was high, while at least twice as many felt morale was low.

TABLE 63
MORALE DISTRIBUTION (\%)

|  | Gender |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | ---: | ---: |
| morale high | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.2 | 3.3 | 2.6 | 2.8 | 3.4 | 3.3 | 3.1 | 3.4 |
| agree | 20 | 23 | 8 | 30 | 22 | 22 | 20 | 22 |
| neutral | 21 | 20 | 23 | 22 | 26 | 11 | 20 | 22 |
| disagree | 59 | 57 | 69 | 48 | 52 | 67 | 60 | 56 |

B. SATISFACTION WITH WORKING ENVIRONMENT/CONDITIONS (WORKENV)

Table 64 presents the satisfaction distribution with working conditions and the work environment at the center. The overall sample mean points to general dissatisfaction with work conditions at the Center. Males tended to be more satisfied with conditions
than females. Department 400 employees were much more satisfied than their counterparts, with over half of the respondents satisfied; while department 700 employees were much less satisfied, with twice as many dissatisfied employees as satisfied employees.

TABLE 64
WORK CONDITIONS DISTRIBUTION (\%)

|  | Gender |  |  |  |  | Department |  |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: | :---: |
| Response | Overall | male | Eemale | 200 | 400 | 700 | 800 | 900 |  |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |  |
| mean | 3.7 | 3.8 | 3.4 | 3.4 | 4.4 | 3.0 | 3.6 | 3.9 |  |
| satisfactory | 43 | 47 | 23 | 35 | 52 | 30 | 39 | 52 |  |
| neutral | 8 | 5 | 23 | 4 | 15 | 4 | 11 | 4 |  |
| unsatisfactory | 49 | 48 | 54 | 61 | 33 | 56 | 50 | 44 |  |

C. SATISFACTION WITH LIFE AT NAVAL AVIONICS (SATNAC)

Global feelings concerning satisfactior with the overall life associated with working at Naval Avionics is presented in Table 65. In the overall sample, there were as many satisfied as dissatisfied employees. Males tended to be more satisfied than females. Department 200, with roughly the same mean as the other aroups, had much fewer satisfied personnel than the other departments.

TABLE 65
LIFE AT NAC DISTRIBUTION (\%)

|  | Gender |  |  |  | Department |  |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| Response | Overall | male | Eemale | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 4.0 | 4.1 | 3.5 | 4.1 | 4.0 | 4.0 | 4.0 | 3.9 |
| satisfied | 42 | 46 | 23 | 29 | 44 | 44 | 41 | 42 |
| neutral | 14 | 14 | 15 | 22 | 11 | 15 | 17 | 9 |
| dissatisfied | 44 | 40 | 62 | 49 | 45 | 41 | 42 | 49 |

D. COULD BE BETTER OFF IF LEFT NAC (BETTOFF2)

Table 66 shows that many people were unsure whether or not they and their families could be better off if they left NAC. In all cases, except females, the means tended towards agreement that they could be better off leaving NAC. Of those respondents who were not neutral (i.e., had an opinion), in general most thought that they colld be better off employed elsewhere. In the overall sample, male sample, and departments 700 and 900 samples, more than twice as many thought they could be better off leaving than did those who thought they could be better off staying. Equal numbers of females thought they could be better off leaving as staying. Department 200 was the only group in which a majority thought that they could be better off by staying. Five times as many people in department 200 than in department 700, and at least twice as many as other departments, thought that they could be better off staying at the Center.

TABLE 66
COULD BE BETTER OFF DISTRIBUTION (\%)
Gender Department

| Response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| $n$ | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 4.4 | 4.4 | 3.9 | 4.5 | 4.2 | 4.5 | 4.2 | 4.5 |
| agree | 39 | 41 | 27 | 26 | 30 | 41 | 30 | 49 |
| neutral | 40 | 39 | 46 | 22 | 44 | 48 | 52 | 24 |
| disagree | 21 | 20 | 27 | 52 | 26 | 11 | 18 | 27 |

## E. NAVAL AVIONICS AS EXPECTED (NACXPECT)

Less than half of the sampled personnel thought that working at the Center was as they had initially thought it would be. Males tended to think that NAC was as they expected more than females did. Department 700 employees found that working at NAC was most like they had thought it would be, department 400 the least.

TABLE 67
NAC AS EXPECTED DISTRIBUTION (\%)
Gender Department

| Response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.9 | 4.0 | 3.7 | 3.9 | 3.6 | 4.3 | 3.9 | 4.0 |
| as expected | 41 | 42 | 31 | 39 | 33 | 52 | 41 | 40 |
| neutral | 16 | 16 | 19 | 17 | 22 | 18 | 13 | 11 |
| not as expected | 43 | 42 | 50 | 44 | 45 | 30 | 46 | 49 |

F. REWARDS BASED ON PERFORMANCE (REWARDS)

A majority of the respondents in all sample groups felt that pay raises and promotions were not based on performance. Three times as many respondents in the overall sample felt that this was the case than felt that rewards were based on performance. Males tended to think that rewards were based on performance more than did females, only one-tenth of whom felt this way. Department 700 and 800 personnel most felt that rewards were based on performance, department 900 least felt that they were connected. In all cases, the mean response was "slightly disagree" or less.

TABLE 68
REWARDS DISTRIBUTION (\%)
Gender Department

| Response | Overail | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
|  | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.0 | 3.1 | 2.5 | 2.8 | 2.9 | 3.3 | 3.1 | 2.8 |
| agree | 24 | 26 | 11 | 22 | 19 | 30 | 31 | 18 |
| neutral | 7 | 7 | 4 | 0 | 7 | 7 | 4 | 11 |
| disagree | 69 | 67 | 85 | 78 | 74 | 63 | 65 | 71 |

G. PAY VERSUS NEEDS (PAYNFEDS)

A small majority of the sample population indicated that current pay received at least met their present needs. Pay was able to meet the needs of females more than for males. Department 800 least had their pay needs met, department 400 most had their pay needs met. As expected, relatively few people said that the pay received exceeded their needs, although one-third of those polled in department 400 indicated that this was the case. Department 400 also had the lowest percentage of respondents who said that pay was inadequate.

TABLE 69
PAY VS. NEEDS DISTRIBUTION (\%)
Gender Department

| Response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.5 | 3.4 | 3.8 | 3.8 | 4.1 | 3.2 | 3.3 | 3.4 |
| pay exceeds needs | 19 | 18 | 23 | 17 | 33 | 22 | 15 | 16 |
| pay meets needs | 34 | 33 | 42 | 48 | 41 | 22 | 24 | 38 |
| pay inadequate | 47 | 49 | 35 | 35 | 26 | 56 | 61 | 46 |

H. PAY IMPORTANCE (PAYIMPRT)

A large majority of respondents indicated that pay was important to them. Less than $7 \%$ of any group stated that pay was an unimportant aspect of the job for them. Pay was most important to those in departments 700,900 , and 400 . It was very much less important to those in department 200, where only half of the sample indicated that pay was important, and nearly all of the rest indicated it was only moderately important.

TABLE 70
PAY IMPORTANCE DISTRIBUTION (\%)

|  | Gender |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| Response | overall | male | Eemale | 200 | 400 | 700 | 800 | 900 |
| $n$ | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 5.2 | 5.2 | 5.2 | 4.7 | 5.4 | 5.6 | 5.2 | 5.2 |
| important | 73 | 74 | 69 | 52 | 78 | 81 | 72 | 80 |
| moderate | 21 | 19 | 31 | 44 | 22 | 15 | 22 | 13 |
| unimportant | 6 | 7 | 0 | 4 | 0 | 4 | 5 | 7 |

I. JOB OFFERS (JOBOFEER)

Roughly one-third of the total sample had received a job offer from outside of the center in the past year. Males were more likely to receive such employment offers than females by an almost two-to-one margin. Departments 700 and 800 received the most job offers, departments 200 and 900 the least offers.

TABLE 71
JOB OFFER DISTRIBUTION (\%)

| Response | Gender |  |  | Department |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| received offer | 33 | 35 | 19 | 22 | 37 | 44 | 41 | 20 |
| did not receive | 67 | 65 | 81 | 78 | 63 | 56 | 59 | 80 |

## SUMMARY

In general, employees at Naval Avionics appear to be slightly dissatisfied with the status quo. Few found working at NAC to be as they had expected it to be, and as a result, less than half of the sample were satisfied with the global measure of "life at NAC". In addition, the respondents were dissatisfied with many of the facets of job satisfaction, including the working conditions and environment, and pay, which was deemed to be an important factor by most of those sampled, yet few thought that pay was adequate to meet their needs, and few were satisfied with the current pay raise/promotion programs. Many were unsure if they could be better off by leaving NAC; but of those with an opinion, most felt that they could indeed be better off. Less than onethird had actually received another job offer, but this is just a measure of those that had received an offer and that still worked at NAC. Each of these problems likely contributes to the low morale rankings.

## VII. CAREER DEVELOPMENT

This section profiles several important characteristics concerning career paths and career development at Naval Avionics.
A. SATISFACTION WITH CAREER OPTIONS AVAILABLE (CAROPT)

In general, people were dissatisfied with the career path options they felt were available to them. Over half of the respondents in most groups were dissatisfied, with those in department 200 the most dissatisfied. Females were as satisfied/dissatisfied as their male colleagues. Department 200 was the most satisfied group, with slightly more people dissatisfied than were satisfied.

TABLE 72
SATISEACTION WITH CAREER OPTIONS DISTRIBUTION (\%)

|  | Gender |  |  |  |  | Department |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | ---: | :---: |
| Response | overall | male | female | 200 | 400 | 700 | 800 | 900 |  |
| $n$ | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |  |
| mean | 3.6 | 3.6 | 3.6 | 3.9 | 3.3 | 3.6 | 3.6 | 3.5 |  |
| satisfied w/options | 32 | 33 | 31 | 39 | 18 | 37 | 35 | 31 |  |
| neutral | 16 | 17 | 11 | 17 | 19 | 11 | 17 | 13 |  |
| dissatisfied | 52 | 50 | 58 | 44 | 63 | 52 | 48 | 56 |  |

B. CAREER OPTIONS SATISFY CAREER GOALS (OPTGLMT)

The career options that the sample population deems to be available to them do not appear adequate to meet the needs of the Center's employees. The "not adequate" response occurred at least 3 to 5 times more than the "adequate" response for every group, with the exception of department 700 , which had mostly unsure
respondents. Of those respondents in department 700 that were sure, more said that the available options were adequate than said that they were not adequate.

TABLE 73
OPTIONS SATISFY GOALS DISTRIBUTION (\%)

|  | Gender |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| Response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.2 | 3.1 | 3.4 | 3.1 | 3.0 | 3.1 | 3.2 | 3.2 |
| options adequate | 15 | 14 | 16 | 13 | 11 | 30 | 11 | 20 |
| neutral | 20 | 20 | 24 | 26 | 15 | 48 | 31 | 13 |
| not adequate | 65 | 66 | 60 | 61 | 74 | 22 | 58 | 67 |

C. SATISFACTION WITH CAREER DEVELOPMENT PROGRAM (CARDEV)

Less than one-third of the respondents were satisfied with the current career development program. Over half were dissatisfied. Males and females were equally dissatisfied with the program. Department 200 was the most satisfied with current career development efforts, while in every other department at least twice as many were dissatisfied as were satisfied. Department 400 was the least satisfied department.

TABLE 74
SATISFACTION WITH CAREER DEVELOPMENT PROGRAM DISTRIBUTION (\%)

|  | Gender |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| Response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.5 | 3.5 | 3.7 | 4.0 | 3.0 | 3.5 | 3.3 | 3.5 |
| satisfied | 25 | 25 | 27 | 35 | 26 | 23 | 26 | 22 |
| neutral | 24 | 23 | 23 | 26 | 22 | 33 | 9 | 27 |
| dissatisfied | 51 | 52 | 50 | 39 | 52 | 44 | 65 | 51 |

D. SATISFACTION WITH AVAILABIIITY OF CAREER INFOFMATION (CARINFO)

Most respondents felt that there was an inadequate amount of career information available to them. Females felt that there was enough information available more than did males. Department 200 was much more satisfied than any other group about the availability of information, while department 400 was much less satisfied than any other department with the availability of information. In all cases, there were at least three times as many dissatisfied responses as there were satisfied responses lexcept for department 200, where there were roughly twice as many).

TABLE 75
SATISEACTION WITH AVAILABILITY OF INFORMATION DISTRIBUTION (\%)

|  | Gender |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | ---: | ---: | ---: |
| Response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| $n$ | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.3 | 3.2 | 3.5 | 3.8 | 3.0 | 3.3 | 3.1 | 3.3 |
| satisfied | 22 | 20 | 31 | 31 | 11 | 22 | 22 | 24 |
| neutral | 14 | 15 | 8 | 17 | 11 | 15 | 9 | 18 |
| dissatisfied | 64 | 65 | 61 | 52 | 78 | 63 | 69 | 58 |

E. FAMILIARITY WITH CAREER OPTIONS (FAMOPT)

Most respondents reported being unfamiliar with the career options available to them. Less than one-fourth felt that they were well informed about career choices within NAC, while over onehalf felt that they were not well informed. Males tended to feel more informed than did females. Departments 800 and 900 were the most well informed groups, while department 200 was the least
informed, with less than one-tenth feeling well informed.

TABLE 76
FAMILIARITY WITH OPTIONS AVAILABLE DISTRIBUTION (\%)

|  | Gender |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| Response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.5 | 3.5 | 3.2 | 3.2 | 3.2 | 3.4 | 3.7 | 3.5 |
| Well informed | 21 | 22 | 15 | 9 | 15 | 19 | 22 | 28 |
| neutral | 27 | 26 | 35 | 26 | 30 | 37 | 33 | 16 |
| not informed | 52 | 52 | 50 | 65 | 55 | 44 | 45 | 56 |

F. SATISFACTION WITH AVAILABILITY OF CAREER GUIDANCE (CARGUIDE)

A majority of respondents felt that the availability of career guldance was unsatisfactory. In every group (except department 200), at least four times as many people were dissatisfied with the availability of guidance than were satisfied; in department 400 nine times as many were dissatisfied. In department 200 the dissatisfied to satisfied ratio was 1.5-to-1.

TABLE 77
SATISFACTION WITH AVAILABILITY OF GUIDANCE DISTRIBUTION (\%)
Gender Department

| Response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.1 | 3.1 | 3.2 | 3.7 | 2.8 | 3.1 | 2.9 | 3.1 |
| satisfied | 14 | 14 | 19 | 30 | 8 | 15 | 13 | 14 |
| neutral | 22 | 22 | 23 | 26 | 22 | 26 | 15 | 22 |
| dissatisfied | 64 | 64 | 58 | 44 | 70 | 59 | 72 | 64 |

## SUMMARY

The career development program at NAC appears to suffer from a lack of information problem. Few people appear to know if such a program exists. Few were satisfied with the help or availability of information that could help them make career choices within NAC. Lack of this information could push people to careers outside of NAC.
G. CAREER ANCHORS

The career anchor concept is based on the idea that people will tend to migrate to jobs that are best able to meet one or more of the attributes that a person holds to be most important in the job process. Past research (Derr, Naval Postgraduate School; and Schein) has shown that many job attributes are important to enticing people to remain on their jobs. Some of the most important include autonomy on the job, ability to work in highly technical environments and develop technical skills, ability to use and develop management skills, opportunity to use and enhance creative ability, and job security. Tables 78 through 84 present information concerning the relative importance of each of these anchors to the sample population. Each respondent compared the importance of each anchor with the others, and ranked them in order of importance.

Table 78 shows the mean scores for each group. The technical anchor was the most important overall, with males and departments 400, 700, and 800 listing it as the most important anchor; and females and departments 200 and 700 listing it as the second most important. The security anchor was the second most important anchor overall, followed by creativity, management, and autonomy. Table 79 presents the anchors in order of importance for each group. As can be seen, females valued job security most of all, while autonomy was the least important career anchor. Males valued the technical anchor most, the autonomy anchor least. Across all groups, autonomy was rated the least important career anchor, perhaps because almost everyone is currently satisfied with the freedom and autonomy they have on the job. Management was the second least important anchor, as expressed in the overwhelming dissatisfaction with management at the center.

TABLE 78
CAREER ANCHORS DISTRIBUTION (MEANS)

|  | Gender |  |  |  | Department |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | ---: |
| Response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| technical | 2.4 | 2.3 | 2.8 | 2.7 | 2.2 | 2.5 | 2.3 | 2.2 |
| management | 3.3 | 3.3 | 3.3 | 3.3 | 3.4 | 3.1 | 3.5 | 3.3 |
| creativity | 2.7 | 2.7 | 2.9 | 2.3 | 2.6 | 3.0 | 2.7 | 2.8 |
| autonomy | 3.6 | 3.6 | 3.5 | 3.8 | 3.5 | 3.3 | 3.6 | 3.5 |
| security | 2.7 | 2.7 | 2.4 | 2.6 | 2.5 | 2.2 | 2.7 | 3.0 |

TABLE 79
CAREER ANCHORS ORDER OF IMPORTANCE

| Overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| tech | tech | sec | creat | tech | sec | tech | tech |
| sec | sec | tech | sec | sec | tech | sec | creat |
| creat | creat | creat | tech | creat | creat | creat | sec |
| mgmt | mgmt | mgmt | mgmt | mgmt | mgmt | mgmt | mgmt |
| auto | auto | auto | auto | auto | auto | auto auto |  |

TABLE 80
CAREER ANCHORS DISTRIBUTION (\%)
TECHNICAL
Gender Department

| Response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| n | 171 | 145 | 25 | 23 | 27 | 27 | 44 | 44 |
| most important | 30 | 33 | 16 | 22 | 37 | 30 | 30 | 34 |
| very important | 27 | 29 | 16 | 22 | 22 | 30 | 29 | 27 |
| important | 25 | 21 | 44 | 26 | 26 | 11 | 27 | 30 |
| less important | 12 | 11 | 20 | 26 | 11 | 18 | 11 | 5 |
| least important | 6 | 6 | 4 | 4 | 4 | 11 | 3 | 4 |

TABLE 81
CAREER ANCHORS DISTRIBUTION (\%)
MANAGEMENT
Gender Department

| Response | Overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | ---: | :---: | ---: | ---: | ---: | ---: | ---: |
| n | 171 | 145 | 25 | 23 | 27 | 27 | 44 | 44 |
| most important | 15 | 14 | 24 | 26 | 15 | 19 | 7 | 16 |
| very important | 19 | 20 | 12 | 9 | 15 | 19 | 23 | 25 |
| important | 13 | 14 | 8 | 9 | 7 | 18 | 15 | 9 |
| less important | 22 | 22 | 20 | 22 | 37 | 22 | 18 | 16 |
| least important | 31 | 30 | 36 | 34 | 26 | 22 | 36 | 34 |

TABLE 82
CAREER ANCHORS DISTRIBUTION (\%)
CREATIVITY
Gender Department

| Response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| n | 171 | 145 | 25 | 23 | 27 | 27 | 44 | 44 |
| most important | 20 | 20 | 20 | 22 | 19 | 11 | 23 | 21 |
| very important | 26 | 28 | 20 | 30 | 26 | 22 | 25 | 27 |
| important | 28 | 28 | 28 | 44 | 33 | 37 | 27 | 16 |
| less important | 15 | 14 | 16 | 0 | 18 | 15 | 9 | 25 |
| least important | 11 | 10 | 16 | 4 | 4 | 15 | 16 | 11 |

TABLE 83
CAREER ANCHORS DISTRIBUTION (\%)
AUTONOMY
Gender Department

| Response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| n | 171 | 145 | 25 | 23 | 27 | 27 | 44 | 44 |
| most important | 8 | 8 | 8 | 4 | 4 | 7 | 11 | 7 |
| very important | 16 | 14 | 24 | 22 | 18 | 26 | 9 | 14 |
| important | 18 | 19 | 16 | 9 | 15 | 15 | 14 | 34 |
| less important | 24 | 25 | 12 | 22 | 11 | 30 | 36 | 16 |
| least important | 34 | 34 | 40 | 43 | 52 | 22 | 30 | 29 |

TABLE 84
CAREER ANCHORS DISTRIBUTION (\%)
SECURITY
Gender
Department

| Response | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | ---: | :---: | ---: | ---: | ---: | ---: | ---: |
| n most important | 171 | 146 | 25 | 23 | 27 | 27 | 44 | 45 |
| very important | 21 | 26 | 32 | 35 | 26 | 37 | 30 | 18 |
| important | 19 | 20 | 28 | 13 | 30 | 30 | 18 | 18 |
| less important | 22 | 21 | 12 | 17 | 18 | 18 | 16 | 22 |
| least important | 11 | 12 | 24 | 26 | 19 | 4 | 23 | 31 |

H. KNOWLEDGE OF AVAILABLE CAREER OPTIONS

Overall, knowledge of the career options available was low. Less than one-fifth of the sample rated themselves as even somewhat
knowledgeable about the Program Manager path; one-third felt they were at least somewhat knowledgeable about the Line Manager, Systems Engineer, and Technical Consultant paths. The overall sample felt most knowledgeable about the Systems Engineer path, followed by Technical Consultant, Line Manager, and Program Manager. Males were most knowledgeable about the Systems Engineer path, and least knowledgeable about the Program Manager path; while females were most knowledgeable about the Line Manager path, least knowledgeable about the Program Manager path-- where $96 \%$ said that they knew nothing about the option. Departments 200, 800, and 900 were most familiar with the Line Manager option, department 400 with the Technical Consultant path, and department 700 with the Systems Engineer path.

1. Program Manager (KNOPPM)

TABLE 85
KNOWLEDGE OF PROGRAM MANAGER OPTION DISTRIBUTION (\%)

| knowledge | Gender |  |  | Department |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 2.6 | 2.6 | 2.3 | 2.4 | 2.2 | 1.5 | 3.2 | 2.9 |
| extremely | 13 | 14 | 4 | 5 | 4 | 4 | 22 | 16 |
| somewhat | 5 | 7 | 0 | 9 | 0 | 0 | 11 | 4 |
| not at all | 82 | 79 | 96 | 86 | 96 | 96 | 67 | 80 |

2. Line Manager (KNOPLM)

TABLE 86
KNOWLEDGE OF LINE MANAGER OPTION DISTRIBUTION (\%)

|  | Gender |  |  |  | Department |  |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| knowledge | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 2.9 | 2.8 | 3.4 | 3.0 | 2.4 | 2.6 | 3.0 | 3.2 |
| extremely | 25 | 22 | 23 | 18 | 16 | 13 | 33 | 29 |
| somewhat | 9 | 11 | 0 | 23 | 4 | 4 | 7 | 11 |
| not at all | 66 | 67 | 77 | 59 | 80 | 83 | 60 | 60 |

3. Systems Engineer (KNOPSE)

TABLE 87
KNOWLEDGE OF SYSTEMS ENGINEER OPTION DISTRIBUTION (\%)

|  | Gender |  |  |  | Department |  |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| knowledqe | overall | male | Eemale | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.0 | 3.1 | 2.5 | 3.0 | 2.8 | 2.0 | 3.6 | 3.2 |
| extremely | 18 | 19 | 8 | 9 | 20 | 0 | 30 | 18 |
| somewhat | 16 | 19 | 4 | 27 | 8 | 22 | 9 | 20 |
| not at all | 66 | 62 | 88 | 64 | 72 | 78 | 61 | 62 |

4. Technical Corssultant (KNOPTC)

TABLE 88
KNOWLEDGE OF TECHNICAL CONSULTANT OPTION DISTRIBUTION (\%)
Gender Department

| knowledge | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | :--- | :---: | ---: | ---: | ---: | ---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 2.9 | 3.0 | 2.3 | 2.9 | 3.0 | 2.2 | 3.2 | 2.8 |
| extremely | 19 | 21 | 8 | 13 | 18 | 11 | 31 | 13 |
| somewhat | 12 | 13 | 8 | 17 | 15 | 8 | 9 | 13 |
| not at all | 69 | 66 | 84 | 70 | 67 | 81 | 60 | 74 |

## I. ATTAINABILITY OF CAREER OPTIONS

The Systems Engineer path and the Technical Consultant path were viewed as the most attainable by the sample as a whole. Males
thought that the Systems Engineer path was the most attainable for them, while the Program Manager path was least attainable; females viewed Line Manager as most attainable and Program Manager as least attainable. Department 900 did not feel that any of the options was really attainable, but most felt that Program Manager was attainable. Department 800 felt that Systems Engineer was most attainable, and that Technical Consultant was somewhat attainable. Department 700 felt that Program Manager and Systems Engineer were not very attainable, but that Technical Consultant was attainable. Department 400 felt that Technical Consultant was the most attainable career path for them, and that Line Manager and Program Manager were not viable alternatives. Department 200 felt That Line Manager was the most attainable option for them.

1. Program Manager (ATTAINPM)

TABLE 89
ATTAINABILITY OF PROGRAM MANAGER OPTION DISTRIBUTION (\%)
Gender Department

| attainable | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.0 | 3.0 | 3.0 | 2.9 | 2.6 | 2.1 | 3.4 | 3.3 |
| extremely | 22 | 21 | 27 | 18 | 17 | 14 | 25 | 28 |
| somewhat | 14 | 16 | 4 | 14 | 12 | 9 | 13 | 11 |
| not at all | 64 | 63 | 69 | 68 | 71 | 77 | 62 | 61 |

2. Line Manager (ATTAINLM)

TABLE 90
ATTAINABILITY OF LINE MANAGER OPTION DISTRIBUTION (\%)
Gender Department

| attainable | overall male female | 200 | 400 | 700 | 800 | 900 |  |  |
| :--- | :---: | :--- | :--- | :--- | ---: | ---: | ---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.3 | 3.3 | 3.5 | 3.5 | 2.8 | 3.2 | 3.5 | 3.4 |
| extremely | 30 | 30 | 28 | 27 | 21 | 36 | 32 | 29 |
| somewhat | 17 | 18 | 16 | 27 | 12 | 9 | 16 | 16 |
| not at all | 53 | 52 | 56 | 46 | 67 | 55 | 52 | 55 |

3. Systems Engineer (ATTAINSE)

TABLE 91
ATTAINABILITY OF SYSTEMS ENGINEER OPTION DISTRIBUTION (\%)

|  | Gender |  |  |  | Department |  |  |  |
| :--- | :---: | :---: | :---: | :---: | ---: | ---: | ---: | ---: |
| attainable | overall | male | Eemale | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.7 | 3.8 | 3.1 | 3.4 | 3.5 | 2.5 | 4.4 | 3.6 |
| extremely | 38 | 41 | 19 | 32 | 42 | 14 | 50 | 36 |
| somewhat | 18 | 18 | 19 | 14 | 12 | 18 | 22 | 18 |
| not at all | 44 | 41 | 62 | 54 | 46 | 68 | 28 | 46 |

4. Technical Consultant (ATTAINTC)

TABLE 92
ATTAINABILITY OF TECHNICAL CONSULTANT OPTION DISTRIBUTION (\%)

Gender Department

| attainable | Overall male | female | 200 | 400 | 700 | 800 | 900 |  |
| :--- | :---: | :--- | :--- | :--- | ---: | ---: | ---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.7 | 3.8 | 3.1 | 3.4 | 4.1 | 3.5 | 4.0 | 3.3 |
| extremely | 33 | 37 | 16 | 18 | 54 | 35 | 34 | 25 |
| somewhat | 18 | 17 | 20 | 30 | 11 | 9 | 23 | 16 |
| not at all | 49 | 46 | 64 | 52 | 35 | 56 | 43 | 59 |

J. DESIRABILITY OE CAREER OPTIONS

In general, all of the career options available appear to be desirable to the sample population. Overall, the Technical Consultant path was the most desirable, followed by systems Engineer, Program Manager, and Line Manager. Males and females differed considerably on what they viewed as desirable career paths. Males heavily favored Technical consultant, followed by Systems Engineer, Program Manager, and Line Manager; while females desired Line Manager and Program Manager, followed by Systems Engineer and Technical Consultant. Program Manager was very desirable to department 900 personnel and undesirable to department 700. Department 200 and 400 favored Line Manager, department 800 strongly desired Systems Engineer, and departments 400 and 800 desired Technical Consultant the most.

Department 900 found all options to be desirable, with Line Manager being only somewhat desirable. Department 800 found Systems Engineer and Technical Consultant to be very desirable career options. Department 700 found only the Technical consultant option to be desirable; Systems Engineer was very undesirable. Department 400 favored only Technical Consultant, department 200 found every option to be attractive.

1. Program Manager (DESIREPM)

TABLE 93
DESIRABILITY OF PROGRAM MANAGER OPTION DISTRIBUTION (\%)

|  | Gender |  |  |  | Department |  |  |  |
| :--- | :---: | :---: | :---: | :---: | ---: | ---: | ---: | ---: |
| desirable | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.9 | 3.9 | 3.9 | 4.1 | 3.4 | 3.2 | 3.6 | 4.5 |
| extremely | 43 | 45 | 35 | 55 | 28 | 32 | 34 | 61 |
| somewhat | 15 | 16 | 11 | 9 | 28 | 14 | 22 | 5 |
| not at all | 42 | 39 | 54 | 36 | 44 | 54 | 44 | 34 |

2. Line Manager (DESIRELM)

TABLE 94
DESIRABILITY OF LINE MANAGER OPTION DISTRIBUTION (\%)
Gender Department

| desirable | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | ---: | :---: | ---: | ---: | ---: | ---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.6 | 3.5 | 4.1 | 4.0 | 3.7 | 3.6 | 3.1 | 3.7 |
| extremely | 35 | 35 | 36 | 32 | 36 | 36 | 25 | 45 |
| somewhat | 16 | 13 | 28 | 32 | 28 | 14 | 12 | 7 |
| not at all | 49 | 52 | 36 | 36 | 36 | 50 | 62 | 48 |

3. Systems Engineer (DESIRESE)

TABLE 95
DESIRABILITY OF SYSTEMS ENGINEER OPTION DISTRIBUTION (\%)
Gender Department

| desirable | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | ---: | :---: | ---: | ---: | ---: | ---: | ---: |
| $n$ | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 4.2 | 4.3 | 3.7 | 4.1 | 3.8 | 2.5 | 4.9 | 4.4 |
| extremely | 48 | 50 | 42 | 50 | 40 | 14 | 63 | 55 |
| somewhat | 16 | 17 | 8 | 18 | 12 | 9 | 15 | 20 |
| not at all | 36 | 33 | 50 | 32 | 48 | 77 | 22 | 25 |

4. Technical Consultant (DESIRETC)

TABLE 96
DESIRABILITY OF TECHNICAL CONSULTANT OPTION DISTRIBUTION (\%)

|  | Gender |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | ---: | ---: | ---: | ---: |
| desirable | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 4.5 | 4.7 | 3.6 | 4.4 | 4.9 | 4.0 | 4.9 | 4.3 |
| extremely | 55 | 59 | 40 | 52 | 67 | 42 | 64 | 50 |
| somewhat | 16 | 16 | 12 | 22 | 18 | 21 | 14 | 11 |
| not at all | 29 | 25 | 48 | 26 | 15 | 37 | 22 | 39 |

K. ABILITY OF CAREER OPTIONS TO SATISFY ASPIRATIONS

Technical consultant was the career option viewed as most able to satisfy career aspirations by the overall sample; Line Manager was viewed as the least able. Males and females differed considerably, with males stating that the Technical consultant path had the best chance to satisfy career aspirations, followed by Systems Engineer, Program Manager, and Line Manager; and females feeling that Program Manager, followed by Line Manager, Systems Engineer, and Technical consultant, would be best able to satisfy career aspirations. Department 900 tended to feel that Program Manager and Line Manager would satisfy aspirations best; Department 800 felt that Systems Engineer and Technical consultant would satisfy career aspirations best. Department 700 felt that only the Technical consultant path could satisfy their aspirations, department 400 favored technical consultant and Program Manager, and department 200 felt that Program Manager and Systems Engineer
were best able to satisfy career aspirations.

1. Program Manager (SATASPPM)

TABLE 97
SATISFACTION OF ASPIRATIONS (PROGRAM MANAGER) DISTRIBUTION (\%)
Gender Department

| desirable | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| $n$ | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 4.0 | 4.0 | 4.1 | 4.3 | 4.4 | 3.3 | 3.8 | 4.6 |
| extremely | 50 | 50 | 46 | 50 | 32 | 41 | 47 | 66 |
| somewhat | 13 | 15 | 8 | 23 | 28 | 5 | 13 | 7 |
| not at all | 37 | 35 | 46 | 27 | 40 | 54 | 44 | 27 |

## 2. Line Manager (SATASPLM)

TABLE 98
SATISFACTION OF ASPIRATIONS (LINE MANAGER) DISTRIBUTION (\%)

Gender Department

| desirable | overall male | female | 200 | 400 | 700 | 800 | 900 |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.7 | 3.6 | 4.1 | 3.9 | 3.8 | 3.5 | 3.1 | 4.1 |
| extremely | 39 | 38 | 44 | 37 | 44 | 41 | 23 | 48 |
| somewhat | 16 | 16 | 16 | 27 | 8 | 9 | 19 | 14 |
| not at all | 45 | 46 | 40 | 36 | 48 | 50 | 58 | 38 |

3. Systems Engineer (SATASPSE)

TABLE 99

```
SATISFACTION OF ASPIRATIONS (SYSTEMS ENGINEER)
    DISTRIBUTION (%)
```

Gender Department

| desirable | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| $n$ | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 4.2 | 4.2 | 3.8 | 4.0 | 3.8 | 3.0 | 4.7 | 4.5 |
| extremely | 49 | 50 | 42 | 36 | 40 | 28 | 67 | 52 |
| somewhat | 19 | 20 | 12 | 32 | 16 | 18 | 11 | 21 |
| not at all | 32 | 30 | 46 | 32 | 44 | 54 | 22 | 27 |

4. Technical Consultant (SATASPTC)

TABLE 100
SATISFACTION OF ASPIRATIONS (TECHNICAL CONSULTANT) DISTRIBUTION (\%)

| desirable | Gender |  |  | Department |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| $n$ | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 4.3 | 4.5 | 3.5 | 3.9 | 4.7 | 4.0 | 4.9 | 4.1 |
| extremely | 53 | 57 | 32 | 30 | 74 | 50 | 66 | 43 |
| somewhat | 14 | 13 | 16 | 22 | 4 | 17 | 11 | 16 |
| not at all | 33 | 30 | 52 | 48 | 22 | 33 | 23 | 41 |

K. INTEREST IN PURSUIT OF CAREER OPTIONS

Overall, the Technical Consultant career option is the on that most respondents were interested in pursuing. Males and females differed in their interests in the different options as careers. Males found the Technical Consultant path to be the one that most interested them, followed by Program Manager, Systems Engineer, and Line Manager. Females found Line Manager interested them the most. followed by Program Manager, Technical Consultant, and Systems Engineer. Department 900 was most interested in pursuing Program Manager, but was interested in all of the options. Department 800 was most interested by Technical Consultant and Systems Engineer, Line Manager sparked little enthusiasm. Department 700 preferred Technical Consultant and was not interested very much by systems Engineer. Department 400 was very interested in Technical Consultant, department 200 was interested in the Program Manager option.

1. Program Manager (PURSUEPM)

TABLE 101
INTEREST IN PURSUIT (PROGRAM MANAGER) DISTRIBUTION (\%)

> Gender Department

| interest | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 4.0 | 4.0 | 3.9 | 4.2 | 3.4 | 3.5 | 3.7 | 4.5 |
| extremely | 48 | 49 | 40 | 50 | 40 | 39 | 41 | 58 |
| somewhat | 10 | 10 | 8 | 14 | 12 | 9 | 11 | 7 |
| not at all | 42 | 41 | 52 | 36 | 48 | 52 | 48 | 35 |

2. Line Manager (PURSUELM)

TABLE 102
INTEREST IN PURSUIT (LINE MANAGER) DISTRIBUTION (\%)

|  | Gender |  |  |  | Department |  |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| interest | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 3.7 | 3.6 | 4.0 | 3.6 | 3.6 | 3.7 | 3.0 | 4.0 |
| extremely | 38 | 38 | 37 | 32 | 36 | 43 | 29 | 45 |
| somewhat | 12 | 11 | 17 | 18 | 12 | 9 | 9 | 11 |
| not at all | 50 | 51 | 46 | 50 | 52 | 48 | 62 | 44 |

3. Systems Engineer (PURSUESE)

TABLE 103
INTEREST IN PURSUIT (SYSTEMS ENGINEER)
DISTRIBUTION (\%)

Gender Department

| interest | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| :--- | :---: | :---: | :---: | :---: | ---: | ---: | ---: | ---: |
| $n$ | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 4.0 | 4.0 | 3.4 | 3.8 | 3.6 | 3.0 | 4.4 | 4.2 |
| extremely | 44 | 45 | 32 | 36 | 32 | 30 | 53 | 49 |
| somewhat | 14 | 16 | 8 | 23 | 16 | 13 | 14 | 11 |
| not at all | 42 | 39 | 60 | 41 | 52 | 57 | 33 | 40 |

4. Technical Consultant (PURSUETC)

TABLE 104
INTEREST IN PURSUIT (TECHNICAL CONSULTANT)
DISTRIBUTION (\%)

|  | Gender |  |  |  | Department |  |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| interest | overall | male | female | 200 | 400 | 700 | 800 | 900 |
| n | 174 | 147 | 26 | 23 | 27 | 27 | 46 | 45 |
| mean | 4.3 | 4.4 | 3.5 | 3.7 | 4.7 | 4.0 | 4.7 | 4.1 |
| extremely | 50 | 54 | 29 | 35 | 70 | 46 | 56 | 47 |
| somewhat | 10 | 10 | 13 | 22 | 0 | 8 | 14 | 7 |
| not at all | 40 | 36 | 58 | 43 | 30 | 46 | 30 | 46 |

## SUMMARY

There is a lot of information contained in the above tables. The most desirable career options for males were Technical Consultant and Systems Engineer, which were also the two options that males felt most knowledgeable about. In addition, males felt that these two options were the most attainable, and would most satisfy their career aspirations; yet males also said that Program Manager was equally as interesting to them to pursue as a career option as Systems Engineer, even though they stated that they were not at all knowledgeable about Program Manager as a career. Females felt that Line Manager was the most desirable and the one they were most knowledgeable about. In addition, they felt that Line Manager was the most attainable option and the one that they were most interested in pursuing, yet they also stated that Program Manager would be the most likely career option to satisfy their
career aspirations. As can be seen, males and females differed considerably in their career interests and satisfactions. In addition, it appears that knowledge and information concerning career alternatives, which appear to be lacking at the center, are the key basis for determining the desirability of, and the interest in, particular career paths.

APPENDIX A
NAVAL AVIONICS CENTER ORGANIZATIONAL CHART



## APPEINDIX B

NAVAL AVIONICS CENTER DIAGNOSTIC SURVEY

## NAC DIAGNOSTIC SURVEY

The purpose of this questionnaire is to identify issues within NAC concerning job attributes, work group attributes, and career development. It is an opportunity to take stock of NAC as a place to work, to spend a career, and to register your observations, concerns, and satisfactions on a number of topics.

This questionnaire was custom designed for NAC and its' scientist and engineer communities. A few questions are standard questions addressing issues that are central to the operation of any organization. But, most of the items reflect issues of specific concern to NAC as identified through interviews. These issues were identified as potential problem areas or as success areas. This survey will allow us to see how the scientist and engineer communities feel about these issues.

After the surveys are collected, results will be tabulated and a report will be prepared which summarizes the findings.

Prof. Benjamin Roberts
Dept. of Admin. Sciences
Naval Postgraduate School

LCDR Thomas Lindner
Master's Degree Student
Dept. of Admin Sciences
Naval Postgraduate School

Prof. Kenneth Thomas
Dept. of Admin. Sciences
Naval Postgraduate School

LT Mark Davis
Master's Degree Student
Dept. of Admin Sciences
Naval Postgraduate School

1. These surveys are meant to be completely anonymous and confidential. Individual responses will not be seen by anyone within this organization. Do not put any identifying marks of any kind on them. When completed, please place the survey in the envelope provided and seal the envelope. Then return the survey and envelope to your departmental/divisional POC.
2. Most of the questions ask that you check one of several numbers that appear on a scale to the right of the item. You are to choose. one number that best matches the description of how you feel about the item. For example, if you were asked "How much do you enjoy the weather in this area", and you are generally satisfied with the weather, you would check the number under "satisfied" like this:

How much do you enjoy the weather in this area?.

|  |  |
| :---: | :---: |
| $\bigcirc$ |  |
| 0 |  |
| - |  |
| n |  |
| - -1 | ' |
| $\stackrel{+}{0}$ | - |
| n | 4 |
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| 0 | $\pm$ |
|  | 0 |
| , | 0 |
|  | -r |

® not satisfied or
(issatisfied
Glightly satisfied
G $\mid$ satisfied
very satisfied
(7)

Note that the scale descriptions may be different in different parts of the survey. For example, they may ask you haw much you agree or disagree with something, or how satisfied or dissatisfied you are with something, or wether you think something is likely or unlikely to occur. Be sure to read the scale descriptions carefully for each section before choosing your answers.

## DEMOGRAPHICS

The following information is needed to help us with the statistical analyses of the data. This information will allow comparisons to be made among different groups of employees.

PLEASE ANSWER EACH QUESTION BY MARRING THE NUMBER NEXT TO THE DESCRIPTION WHICH BEST FITS YOU OR BY WRITING IN THE CORRECT INFORMATION.

1. Are you (check one):
(0) $\qquad$ Female
(1) $\qquad$ Male
2. How old were you on your last birthday?

3. How many years have you worked at NAC?
$\qquad$ years
4. What is the highest level of education you have attained?
(1) High school diploma
(2) Assoc/Jr college degree
(3) Bachelor's degree
(4) Master's degree
(5) Doctoral degree
5. Are you currently married?
(0) no
(1) yes
6. Do you have dependents? (excluding your spouse)
( 0 ) $\qquad$ no
(1) $\qquad$ yes
7. Your department/division is?
$\qquad$
8. Your paygrade is?

GS- $\qquad$
9. Is your spouse currently employed outside of the home?
(0) $\qquad$ no
(1) $\qquad$ yes
(3) $\qquad$ N/A
10. What was your last performance rating?
11. Have you actively pursued alternative employment opportunities within the past year?
(0) $\qquad$ no
(1) $\qquad$ yes

This section asks you how you think and feel about certain aspects of your job.

1. How satisfied are you with:

(3)
(4)
(5) slightly satisfied


(6)
(7)
b. fringe benefits you
receive.
(1)
(2)
(3)
(4)
(4)
(5)
(6)
(7)
c. coworkers/work group
(2)
(3)
(4)
(5)
(6)
(6)
(7)
d. amount of freedom you have on your job
(1)
(2)
(3)
(4) (5) (6)
(7)
f. opportunities to
accomplish something
worthwhile .
(1) (2)
(2) (3)
(4) (5) (6)
6) (7)
g. your amount of pay.
(1)
(2)
(1) (2) (3)
(4) $(5)$
(5)
(6) (7)
h. the chances you have to take part in decisions. .
i. your job security. . . . .
j. promotion opportunities.
(2) (3)
(3)
(4)
7) (6)
8) (7)
(1) (2)
1. opportunities to receive training
(1) (2) (3)
(3)
(4) (5)
(6) (7)
$m$. the current bonus system.
n. opportunities to work with
$n$. state of the art equipment
(1) (2) (3)
(3)
(4) (5) (6)
(4) (5) (6)
(7)
o. career path opportunities.
(1)
(2)
(3)
(4) (5) (6)
(7)
(4)
(5)
(6)
(7)
2. How much do you agree or disagree with the following:

a. In general, I like my job . (1)
(2)
(3)
(1)
(2)
(3)
(4)
(5)
(6)
(7)
c. What happens to the
organization is really
important to me
(1)
(2)
(3)
(4)
(5)
(6)
(7)
d. It would be hard for me
to leave my job even if
I wanted to.
(2)
(3)
(4) (5)
(6)
(7)
f. I feel personnally respons-
ible for the work I do . . (1
(2)
(3)
(4) (5)
(6)
(7)
g. There is poor communication between different parts of NAC . . . . . . . . . (1) (2) (3) (4) (5) (6) (7)
e. I often think of quitting. (1) (2) (3) (4) (5) (6) (7)
3. How much do you agree or
disagree with the following:
a. Management makes it easy to get the job done
b. There is enough variety in my job . . . . . . . . . . (1)
c. My job is challenging. . . (1)
(2)
(3)
(4) (5)
(6) (7)
d. Considering my skills and effort I put into my work, I am satisfied with pay.
e. There is to much stress on my job.
(1)
(2)
(3)
(4)
(5)
( 6 )
(1)
(2)

4. How likely is it that:
a. You could find an equal or better job at another
organization.
b. You will look for a new job in the next 12 months . . . . . (1)
c. You will get a bonus or pay raise if you perform your job particularly well
d. You will be promoted to the next higher grade
e. You will remain at NAC for at least five more years
f. You will receive feedback from your supervisor(s) concerning your performance(1)
g. Your family would be better off if you took a new job.
h. You will remain at NAC until retirement.(4)

## WORK GROUPS

| This section asks you what you think about various work groups. | - | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & \text { of } \\ & 0 \end{aligned}$ | $\begin{aligned} & 4 \\ & 0 \\ & 0 \\ & 0 \\ & \mu \\ & 0 \end{aligned}$ | 0 <br> 0 <br> $\sim$ <br> 0 <br> 0 <br> 1 |  | 0 0 0 0 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. For your department, how much do you agree or disagree with the following: | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & \tilde{0} \\ & 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & \lambda \\ & \underset{1}{\lambda} \\ & \underset{0}{c} \\ & 0 \\ & \cdots \\ & \cdots \end{aligned}$ |  |  | 0 0 0 0 0 | H - O O O H On |
| . I feel I am really a part of my work group. | (2) | (3) | (4) | (5) | (6) | (7) |
| b. People who offer new ideas are likely to get "clobbered" . . (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| . Each member has a clear idea of the group's goals | (2) | (3) | (4) | (5) | (6) | (7) |
| decision making . . . . . . . (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| e. My co-workers are afraid to express their real views. | (2) | (3) | (4) | (5) | (6) | (7) |
| f. Some of the people $I$ work with have no respect for others. | (2) | (3) | (4) | (5) | (6) | (7) |
| g. Everyone's opinions gets <br> listened to in my group. | (2) | (3) | (4) | (5) | (6) | (7) |
| h. morale is high. . . . . . . . (1) | (2) | (3) | (4) | (5) | (6) | (7) |

2. For your division, how much do you agree or disagree with the following:

| 0 0 0 0 0 0 0 -r 0 | - | $$ | $\begin{aligned} & \mu \\ & 0 \\ & 0 \\ & \sim \\ & \sim \\ & \hline \end{aligned}$ | $$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ |  | $\begin{aligned} & 0 \\ & 0 \\ & \text { 0 } \\ & 0 \\ & \hline \end{aligned}$ |

a. I feel I am really a part of my work group. . . . . . . (1)
(2) $(3$
3) (4) (5) (6)
(7)
b. People who offer new ideas are likely to get "clobbered" . . (1
3)
(4) (5) (6)
(7)
c. Each member has a clear idea of the group's goals
(1) (2
(4) (5) (6)
(7)
d. Everyone is involved in the decision making
(1)
(2) (3)
(4) (5) (6)
(7)
e. My co-workers are afraid to express their real views. . . (1
(2) (3)
(4) (5) (6)
(7)
f. Some of the people $I$ work with have no respect for others. . (1)
(2) $(3$
(4) (5) (6)
(7)
g. Everyone's opinions gets listened to in my group . . . (1)

1) (2) (3)
(4) (5) (6)
(7)
h. morale is high
(1)
(2)
(3)
(4) (5)
(6)

## GENERAL

This section asks what you think and feel concerning several areas.

1. How much do you agree or disagree with the following:

| $\stackrel{\otimes}{4}$ |  |
| :---: | :---: |
| 4 |  |
| 0 |  |
| $\stackrel{\pi}{0}$ |  |
| $\cdot \mathrm{H}$ |  |
| - |  |
| > | 0 |
| $\cdots$ | ${ }^{1}$ |
| 0 | 4 |
| c | 0 |
| $\bigcirc$ | $\pi$ |
| 4 | $\because$ |
| + | $\cdot \mathrm{H}$ |
| の | \% |



| a. Morale is good at NAC . . . . (1) | (2) | (3) | (4) | ( 5 | (6) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Working environment/conditions are satisfactory. | (2) | (3) | (4) | ( 5 ) | (6) | 17 |
| c. I am satisfied with my life at NAC | (2) | (3) | (4) | (5) | (6) |  |
| . My family could be better off if I left NAC. | (2) | $(3)$ | (4) | (5) | (6) | (7) |
| - Working at NAC is about what |  |  |  |  |  |  |
| I expected it would be . . . . (1) | (2) | (3) | (4) | (5) | (6) |  |
| Pay raises/promotions depend | (2) | (3) | (4) | (5) | (6) |  |

2. Please answer the following:
a. The pay for my present job is:
(1)
(2)
(3)
(4)
(5)
(6)
(7)
less than $I$ really need
enough to meet my needs
much more than my needs require
to live
b. How important is pay to you?
(1)
(2)
(3)
(4)
(5)
(6)
(7)
unimportant
moderately important
c. Have you received other job offers in the past 12 months?
(0) $\qquad$ no
(1) $\qquad$ yes
d. How many more years do you intend to work at NAC?

$$
\begin{array}{ll}
<1 \\
1-3 \\
4-6 \\
7-9
\end{array} \quad \begin{aligned}
& 10-12 \\
& -\quad 13-15 \\
& 16+ \\
& -\quad=
\end{aligned}
$$

## CAREER DEVELOPMENT

This section asks you how you think and feel about various aspects concerning career development.

1. How satisfied are you with:
a. the career options available* to you .
(3)
(4)

 | 0 |
| :--- |
|  |
|  |
| 0 |
| - |
| N |
| 0 |
| 0 |

(6)
(7)
b. the career development program at NAC.
c. the amount of information that is available to me concerning career paths
(4)
$(5$
(6)
(7)
d. the availability of career guidance
(2)
(3)
(4)
( 5
(6)
2. Please answer the following:
a. to what extent do the career options available at NAC satisfy your career goals?
(1) (2)
career options
are inadequate
to meet my needs
> (3)
> career options adequate to meet my needs
(6)
(7)
career options are more than adequate to meetmyneeds
b. how familiar are you with the availabale career options?
(1)
(2)
(3)
(4)
(6)
(7)

I know little about my career options

I am fairly
well informed
about my career
options

I am very
well informed about my career
options
c. Rank the following in order of importance to you $(1=$ most important, $5=$ least important):

My job/career at NAC appeals to me because it allows/ will allow me the opportunity to:
$\qquad$
3. The following section asks you questions concerning your knowledge and understanding of, and satisfaction with, your career options at NAC- program manager, line manager, systems engineer, and technical consultant/engineer. If you are already in a "track", then please answer the questions "in hindsight".
a. How knowledgeable are/were you about the career options available to you at NAC?

(1) program manager.
(1)
(2) line manager . . . . . .
(3) systems engineer . . . (1) (2) (3) (4) (5) (6)
(6)
b. How attainable is/was each career option for you?

| (1) program manager. $\cdot \cdots$ | $\cdot(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ | $(6)$ | $(7)$ |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $(2)$ Iine manager | $\cdot$ | $\cdot$ | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ | $(6)$ | $(7)$ |
| $(3)$ systems engineer | $\cdot$ | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ | $(6)$ | $(7)$ |  |
| $(4)$ technical consultant | $\cdot$ | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ | $(6)$ | $(7)$ |  |

c. How desirable is/was each career option for you?

| (1) program manager. . . . . (1) | $(2)$ | $(3)$ | $(4)$ | $(5)$ | $(6)$ | $(7)$ |  |  |  |
| ---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| (2) line manager | $\cdot$ | $\cdot$ | $\cdot$ | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ | $(6)$ |
| $(3)$ systems ongineer..... | $\cdot$ | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ | $(6)$ | $(7)$ |  |
| $(4)$ technical consultant. | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ | $(6)$ | $(7)$ |  |  |

d. To what extent is/would each
career option be able to satisfy your career aspirations?

| (1) program manager. . . . . | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ | $(6)$ | $(7)$ |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $(2)$ line manager | $\cdot$ | $\cdot$ | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ | $(6)$ | $(7)$ |
| $(3)$ systems engineer. | $\cdot$ | $\cdot$ | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ | $(6)$ | $(7)$ |
| $(4)$ technical consultant.. | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ | $(6)$ | $(7)$ |  |  |

e. To what extent are/were you
interested in pursuing a
career in each option available
to you at NAC?

| (1) program manager. . . . . | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ | $(6)$ | $(7)$ |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| (2) line manager | $\cdot$ | $\cdot$ | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ | $(6)$ | $(7)$ |
| $(3)$ systems engineer. | $\cdot$ | $\cdot$ | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ | $(6)$ | $(7)$ |
| $(4)$ technical consultant. | . | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ | $(6)$ | $(7)$ |  |

4. Please answer the following questions:
a. What factors do you consider to be the most important in selecting a career path option?
b. Which of the available career paths is most attractive, and why?
c. What improvements could be made in the career development process at NAC?
d. What are the most satisfying aspects of your job and working at NAC?
e. What are the least satisfying aspects of your job and working at NAC?
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