

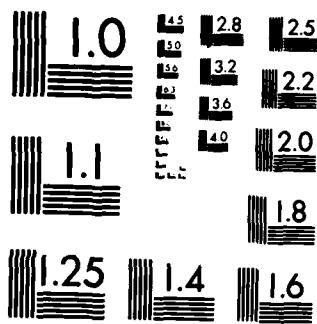
ANALYSIS SURVEY REPORT OCCUPATIONAL FIELD 40 DATA
SYSTEMS(U) DEPARTMENT OF THE NAVY WASHINGTON DC 1984

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PART I

EXECUTIVE SUMMARY, ANALYSIS SURVEY REPORT

Occupational Field 40
Data Systems

OCT 11 1984

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1. Introduction. The occupational survey of Occupational Field (OccFld) 40, Data Systems, was undertaken to provide data that could be used to improve data systems training, evaluate the structure of the occupational field and provide individual training standards for each military occupational specialty (MOS) in the OccFld. This report describes the recently completed analysis survey of Marines in Occupational Field 40. When approved, the study will result in changes to structure, classification and training within the data systems field. An explanation of how the analysis was conducted is included in the report.

2. Background. This is the first time that an occupational analysis and a training analysis have been combined in one study. As a result of the training analysis, training standards were developed which provide guidelines for tasks Marines are required to perform in order to be successful on their jobs. These individual training standards have been staffed separately for comment. Part II of this report, Occupational Analysis Survey Report, provides findings and recommendations on manpower related matters. Training matters are the subject of Part III, Training Analysis Survey Report. The distinction between manpower issues and training issues is not always a clear one. Therefore, some of the issues appear in both Parts II and III.

3. Recommendations. A summary of the primary recommendations contained in the report is as follows:

a. Occupational Analysis Survey Report

(1) Establish MOS 4041 as an additional MOS to identify Marines with teleprocessing skills.

(2) Update MOS Manual job descriptions to more accurately reflect the tasks Marines are performing in the field.

(3) Change titles of some OccFld 40 MOS's to more accurately reflect the tasks Marines are performing.

(4) Review OccFld 40 T/O and by-grade personnel requirements to improve OccFld manpower management.

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b. Training Analysis Survey Report

(1) Review the basic, entry level Computer Operator Course at the Computer Sciences School to eliminate unnecessary instruction.

(2) Establish individual training standards for tasks performed by Marines (provided by separate cover).

(3) Analyze all OccFld 40 individual tasks to determine the proper grade and MOS to perform them.

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PART II

OCCUPATIONAL ANALYSIS SURVEY REPORT

Occupational Field 40 Data Systems

1. Introduction

The occupational survey of Occupational Field (OccFld) 40, Data Systems, was requested by the Director, Computer Sciences School (CSS) in August 1982 for the purpose of providing data on which to improve CSS training course content and to provide training standards for each OccFld 40 MOS. Training standards provide guidelines for tasks Marines are required to perform. This Occupational Analysis Survey Report provides findings and recommendations on manpower related matters. Training matters are the subject of a separate training analysis which is published as Part III, Training Analysis Survey Report.

Copies of this report, the task inventory, by-grade job descriptions and the training standards are available upon request (training standards will be available in August 1983) to the Deputy Chief of Staff for Training (Code TAP), Headquarters U.S. Marine Corps, Washington, D.C. 20380.

2. Background

The OccFld 40 study was initiated in September 1982 by the Analysis and Design Procedures Evaluation Project (A&DPEP) group. This group, composed of Training Department personnel from Codes TAP, TDG, TDA, TDE and TPI used OccFld 40 as the prototype study to test the analysis and design methodology being developed by the group. The methodology has been proven. However, the field was not "ideal" for study due to the numerous new and changing equipment and concomitant task changes, the considerable personnel flux it has experienced and its unique work environment. The study methodology used is described in the following paragraphs.

a. Development of Survey Instruments/Questionnaires

The task analysis job inventory for all OccFld 40 MOS's was developed in November and December 1982. Analysts reviewed previous surveys, technical manuals, and related literature, spoke with the OccFld specialists, and used Job Analysis Brainstorming Sessions (JABS) with subject matter experts (SMEs) at MCDEC, Quantico, Virginia and interviewed Marines at MCB Camp Lejeune, North Carolina to compile the task inventory, which is a part of the survey booklet. Marines experienced in performing data systems duties were interviewed to authenticate the task inventory.

In all, there are five parts to the task analysis survey plus two training analysis booklets. The five parts of the OccFld 40 task analysis survey are:

Part I. Background Information Section - - 39
demographic questions, such as: MOS, grade, training received, education, equipment used, etc.

Part II. Job Satisfaction Section - - a separate 77
question booklet designed to determine the Marine's views about and reactions to his job. Job satisfaction data are available in Code TPI, Training Information Section, Plans and Information Branch.

Part III. Task Section - - 331 tasks describing what
OccFld 40 Marines are doing on their jobs.

Part IV. Write-In Section - - to determine additional
schooling required, school training not being used, and suggested changes to improve the billet MOS and the questionnaire.

Part V. Remarks Section - - provides an opportunity
for the Marine to offer remarks in confidence regarding his OccFld and to list tasks performed that are not listed in the questionnaire.

The responses to these five parts of the survey are recorded in a green optically scanned questionnaire response booklet.

Training analysis data on each of the 331 tasks were collected in two separate booklets titled, "Training Emphasis" and "Training Difficulty." These data were collected from SMEs, NCOs and SNCOs. The Training Emphasis data were collected to help determine training priorities for job tasks which should be emphasized in structured training. Task difficulty information will also be similarly used to improve Marine Corps training. The results of the training analysis are contained in PART III, TRAINING ANALYSIS SURVEY REPORT.

b. Survey Administration

The occupational analysis questionnaire was personally administered during January and February 1983 by the HQMC Training Department analysts. These analysts administered questionnaires to Marines at MCB, Camp Lejeune, NC; MCAS, Cherry Point, NC; MCB, Camp Pendleton, CA; MCB, Albany, GA; and Marine Corps Finance Center, Kansas City, MO.

c. Survey Sample

(1) The final sample consisted of 558 Marines in all grade levels. This sample equates to 30.8% of the total OccFld 40 population of 1,810 Marines (basic 4000 Marines are not included in surveys of job performers). The grade distribution and MOS distribution, both by primary MOS and by billet MOS, and geographic location of Marines surveyed are shown in Tables 1, 2 and 3. The survey, as can be seen from these Tables on pages 3 and 4, is representative of the OccFld 40 population and valid findings can be made based upon analysis of the data collected.

TABLE 1
GRADE DISTRIBUTION

<u>Grade</u>	<u># of Members</u>	<u>% of Sample</u>
Pvt	4	0.7
PFC	42	7.5
LCpl	82	14.7
Cpl	101	18.1
Sgt	193	34.6
SSgt	80	14.3
GySgt	35	6.3
MSgt	14	2.5
MGySgt	7	1.3
	<u>558</u>	

Mean: Sgt

TABLE 2(a)
MOS DISTRIBUTION - By PMOS

<u>PMOS</u>	<u>Actual* Strength</u>	<u># of Members</u>	<u>% of Sample Population</u>	<u>% of Actual Population</u>
4063	704	245	43.9	34.8
4034	716	189	33.9	26.4
4038	273	71	12.7	26.0
4065	56	26	4.7	46.4
4069	61	17	3.0	27.9
OTHER		10	1.8	
TOTAL	1810	558	100.0	30.8

* EPAD, 30 APRIL 1983

TABLE 2(b)

MOS DISTRIBUTION - By BMOS

<u>BMOS</u>	<u># of Members</u>	<u>% of Sample</u>
4063	211	37.8
4034	173	31.0
4038	89	15.9
4066	35	6.3
4065	27	4.8
4069	22	3.0
4000	1	0.2

TABLE 3

<u>Location</u>	<u># of Members</u>	<u>% of Sample</u>
East Coast	254	45.5
Midwest	156	28.0
West Coast	140	25.1
OTHER	8	1.4

(2) Significant trends in the background responses of Data Systems Marines are summarized in Table 4 below:

TABLE 4
SIGNIFICANT TRENDS
DATA SYSTEMS MARINES

Of the sample:

89.4% (499 of 558) indicated that computer system theory is an essential part of initial data processing training.

95.5% (533 of 558) indicated that data control coordinator should have knowledge of computer room operation.

70.4% (393 of 558) indicated that a data control coordinator should have knowledge of a high level programming language.

82.8% (462 of 558) indicated that an applications programmer should have knowledge of computer room operations.

82.8% (462 of 558) indicated that an applications programmer should have knowledge of production control operations.

92.5% (516 of 558) indicated that a systems programmer should have knowledge of computer room operations.

85.8% (479 of 558) indicated that a systems programmer should have knowledge of production control operations.

65.6% (366 of 558) indicated that data processing proficiency tests should be used for promotion.

d. Data Processing and Analysis

The occupational analysis process uses Comprehensive Data Analysis Computer Programs (CODAP) to compare tasks and background information of an individual Marine to those of every other Marine in the study. Groups of Marines are formed by a clustering process which brings together Marines who perform similar tasks. An analysis was performed on selected groups to identify jobs performed and their relationships to current MOS's within the OccFld structure.

3. Findings

a. Additional MOS for Marines Performing Teleprocessing Tasks

(1) Problem. A group of Marines is performing teleprocessing (COMTEN) tasks that are not separately identified in the MOS Manual.

(2) Discussion

(a) The Marines who install and maintain COMTEN teleprocessing software are trained at civilian schools and possess skills that should be identified. These Marines are located at eight telecommunications sites throughout the Marine Corps; plans are to install the teleprocessing capability in two other sites. Increasing numbers of Marines will have to be trained in the future to meet teleprocessing demands. Approximately 20 Marines from various OccFld 40 MOS's have received COMTEN teleprocessing software training.

(b) Analysis of the OccFld 40 objective survey data reveals that Marines are performing teleprocessing tasks at MGySgt through Sgt grade levels. Since Marines from several OccFld 40 MOS's perform teleprocessing tasks, an additional MOS is the appropriate method of identifying the unique tasks performed and special skill training received. The new MOS will identify all Marines who are systems/software-oriented and who have received most of the courses listed below. This is the recommendation of attendees from Marine Corps data processing activities at the Training Instructional Selection Board meeting of 18-21 April 1983. MOS 4034 Marines who install telecommunications peripheral devices are few in number and receive too little formal training (a maximum of two courses totaling five days) to warrant a separate MOS.

(c) Below is a list of civilian courses attended by systems/software teleprocessing COMTEN Marines:

<u>Course #</u>	<u>Course Title</u>	<u>Length</u>
S3601	Introduction to Data Communications	2 days
S3605	NCR COMTEN System Fundamentals	3 days

<u>Course #</u>	<u>Course Title</u>	<u>Length</u>
S3608	NCS OPERATIONS	1 day
S3609	NSS Generation and Operations	1 day
S3615	Emulator Processing Generation	4 days
S3616	Emulator Processing Internals	5 days
S3617	Emulator Logic	3 days
S3618	Emulation Debug and Support Modules	2 days
S3625	GNS Generations and Operation	4 days
S3626	CNS-2 Internals	5 days
S3635	ACF/NCP, NCP and PEP Generation	4 days
S3636	ACF/NCP and NCP Internal	5 days
S3638	SRM Generation	1 day
S3645	MAF Generation and Operation	3 days
S6021	COMTEN Language Support System	<u>3 days</u>
TOTAL		46 days

The above classes, although they are short in duration, cannot be scheduled at the same time because of financial constraints of the commands; further, COMTEN teleprocessing Marines cannot be spared for the time to take the courses consecutively and the complexity of the material is difficult to absorb unless provided over a lengthy period.

(d) Upon establishment of MOS 4041, a common core of courses required to qualify a Marine for the MOS will have to be identified. These standardized entry requirements ensure that MOSs identify Marines with similar skills and knowledge. Further, these courses are currently unit-funded. Each command is able to tailor the educational experience of each telecommunications Marine to the need that exists at its individual installation. Upon creation of MOS 4041, the CMC (Code T) will fund for these courses. Quotas and decisions as to who attends what training will generally be made by the OccFld specialist at HQMC.

(3) Recommendations. It is recommended that:

(a) MOS 4041, Teleprocessing Specialist, MGySgt thru Sgt, be established as an additional MOS. (Primary Action: MOS Specialist; Action: DC/S for Training).

(b) T/O billet requirements for teleprocessing specialists be identified from within existing OccFld 40 billet requirements. (Primary Action: MOS Specialist; Action: DC/S for Manpower).

(c) A common core of courses be identified as a basis for qualifying Marines for MOS 4041, and that the required quotas be established. (Primary Action: MOS Specialist; Action: DC/S for Training.)

(d) The MOS Manual description provided at Appendix B be used to establish the Teleprocessing Specialist MOS. (Primary Action: MOS Specialist; Action: DC/S for Training.)

b. Computer Operator, MOS 4034

(1) Problem. MOS 4034 is a valid MOS; however, a personnel overage exists in the E-1 through E-5 grades.

(2) Discussion. Review of the 30 April 1983 Enlisted Personnel Availability Digest (EPAD) reveals a substantial overage in grades E-1 through E-5.

<u>Grade</u>	<u>Requirement</u>	<u>Actual*</u>	<u>Over</u>
E-5	107	177	70
E-4	147	190	43
E1-E3	<u>208</u>	<u>276</u>	<u>68</u>
Totals	462	643	181

* EPAD, 13 April 1983

The guaranteed enlistment program impacts on the entry level overage.

The E-4/E-5 overage is a result of large numbers of lateral moves, including ATOPs, into the field during FY 81 and 82. These figures are significant when one realizes the Marine Corps has an overage in its enlisted force and that reenlistments in over MOS's will be reviewed to achieve a proper distribution of skills; refer to ALMAR 77-83. Informal liaison with Manpower Department reveals OccFld 40 reenlistments are being closely watched to avoid a potential loss of qualified OccFld 40 personnel.

(3) Recommendations. It is recommended that:

(a) The by-grade job description attached at Appendix C, and the individual task analysis summary sheets attached at Appendix D be used to update the MOS Manual description for MOS 4034. (Primary Action: MOS Specialist; Action: DC/S for Training.)

(b) The DC/S for Manpower and MOS Specialist review the overage existing in MOS 4034 and take appropriate action. (Primary Action: MOS Specialist; Action: DC/S for Manpower.)

c. Data Control Coprdinator, MOS 4038

(1) Problem. MOS 4038 is a valid MOS; however, a structure problem exists at the E-4/E-5 level.

(2) Discussion

(a) Marines in MOS 4038 grouped in two distinct clusters on the CODAP hierarchical diagram; Production Analysis and Production Control. The primary tasks of both groups equated to the tasks identified for MOS 4038 in the MOS Manual, thus the MOS was validated.

(b) A grade inversion does exist at the E-4/E-5 level where 10 E-4 requirements support 66 E-5 requirements. The inversion continues to exist even if one considers MOS 4034 figures with those of MOS 4038. The two MOS's are looked at together as MOS 4038 receives its input from MOS 4034.

<u>Grade</u>	<u>Actual*</u>		<u>Combined</u>
	<u>4034</u>	<u>4038</u>	
E-5	177	74	251
E-4	190	19	209

*EPAD, 30 April 1983

(3) Recommendations. It is recommended that:

(a) The by-grade job description attached at Appendix C and the individual task analysis summary sheets attached at Appendix D be used to update the MOS Manual description for MOS 4038. (Primary Action: MOS Specialist; Action: DC/S for Training.)

(b) The DC/S for Manpower and the MOS Specialist review the structure of MOS 4038 in accordance with established self-renewing occupational field (SROF) guidelines. (Primary Action: MOS Specialist; Action: DC/S for Manpower.)

d. Programmer, COBOL, MOS 4063

(1) Problem. MOS 4063 is a valid MOS; however, its title is not descriptive of the tasks performed and the MOS is not properly structured.

(2) Discussion

(a) Task analysis findings revealed that MOS 4063 is a valid MOS as defined by the MOS Manual.

(b) The current title, Programmer, COBOL, is not descriptive of the tasks performed by Marines in this MOS. These Marines use a number of data processing languages. There was some sentiment found among OccFld 40 officers to establish separate MOS's (skill designators) for each programming language. This was offset, however, by other managers and the OccFld Specialist's belief that the nicety of a precisely defined list of programming languages which might shorten learning time for new assignments would be more than offset by the difficulty of managing the smaller numbers of Marines in each specialty and added upkeep of the classification system. The tasks performed by Marines in this MOS are better described as Applications Programmer, COBOL, MOS 4063.

(c) A grade inversion exists at the E-4 to E-5 level where 127 E-4 actuals support 196 E-5 actuals.

(3) Recommendations. It is recommended that:

(a) The by-grade job description attached at Appendix C, and the individual task analysis summary sheets attached at Appendix D be used to update the MOS Manual description for MOS 4063. (Primary Action: MOS Specialist; Action: DC/S for Training.)

(b) MOS 4063, Programmer, COBOL, be reclassified as Applications Programmer, COBOL, MOS 4063. (Primary Action: MOS Specialist; Action: DC/S for Training.)

(c) The DC/S for Manpower and the MOS Specialist review the structure of MOS 4063 in accordance with established self-renewing occupational field (SROF) guidelines. (Primary Action: DC/S for Manpower; Action: MOS Specialist.)

e. Programmer, ALC, MOS 4065

(1) Problem. MOS 4065 was not validated by the study. Tasks performed by Marines in MOS 4065 are the same type tasks as performed by Marines in MOS 4063.

(2) Discussion. Analysis of survey data collected revealed that COBOL and ALC Programmers are performing the same type of applications programmer tasks. Twenty-four of the twenty-seven Marines surveyed holding BMOS 4065 clustered with MOS 4063. The only difference between MOS 4063 and MOS 4065 is the type of computer language used. However, because of insufficient data relevant to the type of computer language used, the validity of MOS 4065 cannot be determined at this time.

(3) Recommendation. It is recommended that MOS 4065, Programmer, ALC, be reclassified as Applications Programmer, ALC. (Primary Action: MOS Specialist; Action: DC/S for Training.)

f. Programmer, EDL, MOS 4066

(1) Problem. MOS 4066 was validated as a skill designator of MOS 4063; however, the title should be changed to Applications Programmer, EDL.

(2) Discussion

(a) The Programmer, EDL, is closely related to the Programmer, COBOL, in terms of applications programming tasks performed. However, the Programmer, EDL, spends a higher percent of relative time on programming tasks relevant to ADPE-FMF operations.

(b) The recommendation was made in subparagraph 3d to reclassify MOS 4063, Programmer, COBOL, as an Applications Programmer, COBOL. It follows that MOS 4066, Programmer, EDL, should be reclassified as an Applications Programmer, EDL.

(3) Recommendation. It is recommended that:

(a) MOS 4066, Programmer, EDL, be reclassified as Applications Programmer, EDL. (Primary Action: OccFld Specialist; Action: DC/S for Training.)

(b) The by-grade job description attached at Appendix C be used to update the MOS Manual description for MOS 4066, Applications Programmer, EDL. (Primary Action: OccFld Specialist; Action: DC/S for Training.)

g. Systems Programmer, MOS 4069

(1) Problem. MOS 4069, Systems Programmer, is valid as it is currently established; however, some personnel shortages exist in this MOS.

(2) Discussion. Analysis of the tasks performed by Marines in BMOS 4069 indicates they are performing tasks ascribed to this MOS by the MOS Manual. While there are some shortages in the MOS (67 requirements, 52 actuals), this situation is not too unusual for a sophisticated technical MOS requiring a great deal of training and experience.

(3) Recommendation. It is recommended that:

(a) The by-grade job description attached at Appendix C, and the individual task analysis summary sheets attached at Appendix D be used to update the MOS Manual description for MOS 4069. (Primary Action: MOS Specialist; Action: DC/S for Training.)

(b) The DC/S for Manpower and MOS Specialist review the shortages existing in MOS 4069 and take appropriate action if necessary. (Primary Action: MOS Specialist; Action: DC/S for Manpower.)

h. OccFld 40 Restructure

(1) Problem. The MOS structure of OccFld 40 requires updating.

(2) Discussion. This study contains recommendations to:

(a) Establish MOS 4041.

(b) Delete MOS 4065 (date to be determined; present structure not immediately affected).

The MOS structure contained in Appendix E reflects the recommendations in this study. Appendix F is an MOS Conversion chart for use in identifying the proposed MOS changes.

(3) Recommendations. It is recommended that:

(a) OccFld 40 be restructured as proposed in Appendix E. (Primary Action: DC/S for Training; Action: MOS Specialist; DC/S for Manpower).

(b) Appendix F be used to assist in identifying MOS changes resulting from this study. (Primary Action: DC/S for Training; Action: MOS Specialist; DC/S for Manpower).

i. Job Descriptions. The updated MOS Manual job descriptions for the MOS's validated by this study are included in Appendix B. By-grade CODAP job descriptions are included in Appendix C for use by appropriate training related agencies to identify tasks performed and relative percent of time spent performing them by Marines. The individual task analysis summary sheets, which were used to update the proposed MOS Manual descriptions are included in Appendix D.

4. Advantages/Disadvantages of the OccFld Survey Report. This study contains recommendations which will result in several occupational changes in OccFld 40. These advantages and disadvantages are:

(1) Advantages

(a) An MOS is created to identify Marines with teleprocessing skills.

(b) MOS Manual job descriptions are updated to more accurately reflect the tasks Marines are performing in the field.

(c) Titles of OccFld 40 MOS's are changed to accurately reflect the tasks Marines are performing.

(d) A review of OccFld 40 T/O and by-grade personnel requirements will be conducted to improve OccFld manpower management.

(2) Disadvantages. None have been identified specific to this study.

5. General OccFld Comments. Several issues of a collateral nature that pertain to the OccFld were addressed at the Instructional Setting Board (ISB) meeting by data systems officers. They are:

(a) Some officers would like to see each sub-skill resident within the OccFld identified by an MOS; a matrix was proposed. The few numbers of Marines in OccFld 40, as compared to OccFlds 60/61 and 63/64, were thought to make the proposal unworkable from a manpower-personnel management point of view and thus a consensus failed to develop. Refer to paragraph 3d(2)(b) for other comments of this nature.

(b) There was some discussion to establish a Data Base Management System (DBMS) MOS. DBMS skills were identified in the survey and were validated; however, there was not sufficient data to justify a separate DBMS MOS. Marines performing DBMS tasks did not cluster by themselves during the CODAP analysis. They clustered with systems programmers and applications programmers, MOS's 4069 and 4063 respectively. Both MOS's are equally involved with the DBMS, which is still new to the Marine Corps. Separate and independent justification for establishment of a DBMS MOS will have to be developed at a future date.

(c) Comments were made at the ISB meeting on the necessity for establishing a payback requirement for Marines who receive the expensive software COMTEN civilian training. This is a policy issue not within the purview of this study. The MOS specialist and the Manpower Plans and Policy (MP) Division should resolve this issue.

<u>APPENDIX</u>	<u>TITLE</u>	<u>PAGE</u>
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	MOS 4038, Data Control Coordinator - - - - -	B-6
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	MOS's 4063-66, Applications Programmer - - -	D-3
	MOS 4069, Systems Programmer - - - - -	D-5
E	OccFld 40 (DATA SYSTEMS) PROPOSED MOS STRUCTURE	
F	MOS CONVERSION CHART	

TASK ANALYSIS



OCCFLD 40

HEADQUARTERS, U.S.MARINE CORPS

UNITED STATES MARINE CORPS

TASK ANALYSIS PROGRAM

SURVEY BOOKLET

INTRODUCTION

YOU HAVE BEEN SELECTED TO PARTICIPATE IN A STUDY ON THE BASIS OF YOUR CURRENT JOB ASSIGNMENT. THE INFORMATION YOU FURNISH WILL BE OF GREAT VALUE TO THE MARINE CORPS IN FUTURE DECISIONS ON OCCUPATIONAL FIELD STRUCTURE, TRAINING, CLASSIFICATION, AND ASSIGNMENT POLICIES.

THIS SURVEY BOOKLET WAS CONSTRUCTED FROM DOCTRINAL PUBLICATIONS, PROGRAMS OF INSTRUCTION (POI) AND ON-THE-JOB OBSERVATIONS AND INTERVIEWS WITH MARINES PERFORMING DUTIES AND TASKS SIMILAR TO THOSE YOU PERFORM. IT IS DESIGNED TO DETERMINE WHAT YOU DO IN YOUR PRESENT JOB.

THIS IS NOT A TEST. NEITHER YOU, YOUR COMMANDER, NOR YOUR UNIT WILL BE EVALUATED ON THE INFORMATION YOU PROVIDE. THE INFORMATION COLLECTED AND YOUR INDIVIDUAL RESPONSES WILL BE HELD IN THE STRICTEST CONFIDENCE.

THE RESULTS OF THE INFORMATION YOU PROVIDE IN THIS SURVEY MAY BE OF BENEFIT TO YOU AND OTHER MARINES IN YOUR OCCUPATIONAL FIELD. THEREFORE, PLEASE BE AS STRAIGHTFORWARD AND ACCURATE AS POSSIBLE. ALL RESPONSES SHOULD BE BASED ON YOUR PRESENT JOB ASSIGNMENT.

THERE ARE FIVE PARTS TO THIS SURVEY:

PART I	BACKGROUND INFORMATION SECTION
PART II	JOB SATISFACTION SECTION
PART III	TASK SECTION
PART IV	WRITE-IN SECTION
PART V	REMARKS SECTION

GENERAL INSTRUCTIONS

- 1. READ ALL INSTRUCTIONS CAREFULLY.**
- 2. USE ONLY THE PENCIL PRESENTED TO YOU BY THE SURVEY ADMINISTRATOR TO MARK YOUR RESPONSES. DO NOT USE A PEN OR COLORED PENCIL.**
- 3. DO NOT MARK OR WRITE OUTSIDE OF THE RESPONSE BOXES AND CIRCLES IN THE FIRST 3 SECTIONS OF THE GREEN RESPONSE BOOKLET AS THE MARKS MAY BE SCANNED AND MISINTERPRETED BY THE OPTICAL SCANNING MACHINE.**
- 4. IF IT IS NECESSARY TO CHANGE A RESPONSE BE SURE TO ERASE IT COMPLETELY.**
- 5. IT WILL TAKE APPROXIMATELY THREE HOURS TO COMPLETE THIS SURVEY. THERE IS NO TIME LIMIT.**
- 6. DO NOT FOLD OR CREASE THE GREEN RESPONSE BOOKLET.**
- 7. ASK YOUR SURVEY ADMINISTRATOR IF YOU HAVE ANY QUESTIONS REGARDING THE TASK BOOKLET OR THE GREEN RESPONSE BOOKLET.**

NOW TURN TO PAGE 3 OF THIS SURVEY BOOKLET FOR INSTRUCTIONS ON HOW TO COMPLETE PART I.

PART I - BACKGROUND INFORMATION SECTION

INSTRUCTIONS FOR COMPLETING PART I OF THE GREEN RESPONSE BOOKLET:

QUESTIONS IN THIS SECTION REQUIRE YOU TO BLACKEN THE CIRCLE FOR YOUR DESIRED RESPONSE.

E X A M P L E S

1. RANK

E 4
E 5
E 6

**19. DO YOU HAVE A MILITARY
DRIVERS LICENSE?**

01. YES
02. NO

2. SEX

MALE 1
FEMALE 2

EXAMPLE MCS (9915)

6. PRIMARY MCS

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

**NOW, TURN TO PAGE 1 (PART I - BACKGROUND INFORMATION SECTION)
IN THE GREEN RESPONSE BOOKLET AND BEGIN FILLING IN RESPONSES TO
QUESTIONS 1 THROUGH 39.**

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 14 IN THE GREEN RESPONSE BOOKLET

14. AT WHICH TYPE OF DATA PROCESSING ACTIVITY DO YOU PRESENTLY WORK?
(SELECT ONLY ONE)

01. COMPUTER SCIENCES SCHOOL (CSS)
02. REGIONAL AUTOMATED SERVICES CENTER (RASC)
03. MARINE CORPS CENTRAL DESIGN & PROGRAMMING ACTIVITY (MCCDPA)
04. HEADQUARTERS MARINE CORPS FUNCTIONAL MANAGER SUPPORT SECTION
05. FORCE AUTOMATED SERVICES CENTER (FASC)
06. INTERMEDIATE REMOTE JOB ENTRY (RJE)--IBM 360/40 OR ABOVE
07. SMALL REMOTE JOB ENTRY (RJE)--IBM 360/30 OR BELOW
08. INFORMATION SYSTEMS MANAGEMENT OFFICE (ISMO)
09. OTHER--PLEASE LIST NAME OF ACTIVITY ON PAGE 16 IN
THE GREEN RESPONSE BOOKLET

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 15 IN THE GREEN RESPONSE BOOKLET

15. MY PRESENT BILLET TITLE IS BEST DESCRIBED AS: (SELECT ONLY ONE)

- 001. BASIC DATA SYSTEMS MARINE
- 002. COMPUTER OPERATOR
- 003. TAPE LIBRARIAN
- 004. SCAN DATA OPERATOR
- 005. COMPUTER OUTPUT MICROFICHE (CCM) OPERATOR
- 006. COMPUTER OPERATOR SECTION SUPERVISOR
- 007. COMPUTER OPERATOR SHIFT SUPERVISOR
- 008. COMPUTER OPERATIONS CHIEF
- 009. INSTALLATION CHIEF
- 010. CUSTOMER SERVICE COORDINATOR
- 011. CUSTOMER SERVICE CHIEF
- 012. INPUT/OUTPUT (I/O) CLERK
- 013. INPUT/OUTPUT (I/O) SECTION CHIEF
- 014. PRODUCTION CONTROL UNIT (PCU) COORDINATOR
- 015. PRODUCTION CONTROL UNIT (PCU) SECTION CHIEF
- 016. PRODUCTION ANALYSIS UNIT (PAU) COORDINATOR
- 017. PRODUCTION ANALYSIS UNIT (PAU) SECTION CHIEF
- 018. PROGRAMMER (COBOL)
- 019. PROGRAMMER (ALG)
- 020. PROGRAMMER (EDL)
- 021. PROGRAMMER (FORTRAN)
- 022. PROGRAMMER (MARK IV)
- 023. DATA BASE MANAGEMENT SYSTEM PROGRAMMER
- 024. LEAD PROGRAMMER
- 025. PROCEDURE PROGRAMMER
- 026. SYSTEMS PROGRAMMER
- 027. TELEPROCESSING SYSTEMS PROGRAMMER
- 028. PROGRAMMER LIBRARIAN
- 029. MAINTENANCE PROGRAMMER
- 030. PROGRAMMER CHIEF
- 031. SCANDATA PROGRAMMER
- 032. TRAINING CHIEF
- 033. INSTRUCTOR
- 034. ANALYST
- 035. ADMINISTRATIVE CLERK/CHIEF
- 036. DATA BASE MANAGEMENT SYSTEM CHIEF
- 037. SYSTEMS ANALYST
- 038. HARDWARE CHIEF
- 039. NETWORK CONTROL TEAM MEMBER
- 040. NETWORK CONTROL TEAM LEADER
- 041. ISMO SECTION CHIEF
- 042. OTHER - PLEASE DESCRIBE ON PAGE 16 OF GREEN RESPONSE BOOKLET

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 16 IN THE GREEN RESPONSE BOOKLET

16. SELECT ONE OR MORE OF THE PROGRAMMING LANGUAGE(S) WHICH YOU USE IN YOUR PRESENT JOB.

- | | |
|------------|---|
| 1. ALC | 8. APL |
| 2. COBOL | 9. PL/I |
| 3. EDL | 10. PASCAL |
| 4. MARK IV | 11. BASIC |
| 5. NATURAL | 12. SPSS |
| 6. FORTRAN | 13. OTHER - PLEASE LIST ON PAGE 16 OF THE
GREEN RESPONSE BOOKLET |
| 7. RPG | 14. I AM NOT A PROGRAMMER |

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 17 IN THE GREEN RESPONSE BOOKLET

17. DO YOU CONSIDER A BASIC UNDERSTANDING OF COMPUTER SYSTEM THEORY AN ESSENTIAL PART OF INITIAL DATA PROCESSING TRAINING?

01. YES
02. NO

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 18 IN THE GREEN RESPONSE BOOKLET

18. SHOULD AN OPERATOR HAVE A WORKING KNOWLEDGE OF A HIGH-LEVEL PROGRAMMING LANGUAGE SUCH AS COBOL, EDL, OR MARK IV?

01. YES
02. NO

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 19 IN THE GREEN RESPONSE BOOKLET

19. SHOULD A DATA CONTROL COORDINATOR HAVE A WORKING KNOWLEDGE OF COMPUTER ROOM OPERATIONS?

YES OR NO

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 20 IN THE GREEN RESPONSE BOOKLET

20. SHOULD A DATA CONTROL COORDINATOR HAVE A WORKING KNOWLEDGE OF A HIGH-LEVEL PROGRAMMING LANGUAGE SUCH AS COBOL, EDL, OR MARK IV?

YES OR NO

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 21 IN THE GREEN RESPONSE BOOKLET

21. SHOULD AN APPLICATIONS PROGRAMMER HAVE A WORKING KNOWLEDGE OF COMPUTER ROOM OPERATIONS?

YES OR NO

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 22 IN THE GREEN RESPONSE BOOKLET

22. SHOULD AN APPLICATIONS PROGRAMMER HAVE A WORKING KNOWLEDGE OF PRODUCTION CONTROL OPERATIONS?

YES OR NO

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 23 IN THE GREEN RESPONSE BOOKLET

23. SHOULD A SYSTEMS PROGRAMMER HAVE A WORKING KNOWLEDGE OF COMPUTER ROOM OPERATIONS?

YES OR NO

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 24 IN THE GREEN RESPONSE BOOKLET

24. SHOULD A SYSTEMS PROGRAMMER HAVE A WORKING KNOWLEDGE OF PRODUCTION CONTROL OPERATIONS?

YES OR NO

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 25 IN THE GREEN RESPONSE BOOKLET

25. SELECT ONE OR MORE THE PROGRAMMING AID(S) WHICH YOU USE IN YOUR JOB.

1. ROSCOE
2. LIBRARIAN
3. UCC-ONE/TLMS-II
4. EXHIBIT/OMEGAPCN
5. DATAMANAGER
6. IBM OS APPLICATIONS UTILITIES (IEBGENER, IEBUPDTE, IEBPTPCH, IEHPROGM, IEHLIST, SORT/MERGE)
7. IBM OS SYSTEMS UTILITIES (IEBCOPY, IEBISAM, IEHDASCR, IEHINIT, IEHMOVE)
8. COM-LETE
9. JES2 TERMINAL COMMANDS
10. ADABAS
11. SPSS (STATISTICAL PACKAGE FOR SOCIAL SCIENCE)
12. IBM OR OTHER REFERENCE MANUALS
13. HIPO
14. FLOWCHARTS
15. CODEL
16. EDL UTILITIES (FS EDIT, DATA CAPTURE FACILITY (DCF), SDA QUERY)
17. OTHER - PLEASE LIST ON PAGE 16 OF THE GREEN RESPONSE BOOKLET

THE FOLLOWING CORRESPONDS TO BLOCK 26 IN THE GREEN RESPONSE BOOKLET

26. SHOULD A SYSTEMS PROGRAMMER HAVE A WORKING KNOWLEDGE OF A HIGH-LEVEL PROGRAMMING LANGUAGE SUCH AS COBOL, EDL, OR MARK IV?

01. YES
02. NO

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 27 IN THE GREEN RESPONSE BOOKLET

27. SHOULD A SYSTEMS PROGRAMMER HAVE A WORKING KNOWLEDGE OF A LOW-LEVEL PROGRAMMING LANGUAGE SUCH AS ALG?

01. YES
02. NO

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 28 IN THE GREEN RESPONSE BOOKLET

28. WHAT MANAGEMENT TRAINING DO YOU BELIEVE WOULD ENHANCE YOUR ABILITY AS AN OPERATIONS OR INSTALLATION CHIEF TO DO YOUR JOB? SELECT ONE OR MORE AREAS FROM THE FOLLOWING LIST.

1. FISCAL
2. SUPPLY
3. CONTRACTING
4. LOGISTICS
5. ADMINISTRATION
6. LEGAL
7. CAREER PLANNING
8. TRAINING
9. INTELLIGENCE/SECURITY
10. ADP SECURITY
11. MANAGEMENT
12. OTHER - PLEASE EXPLAIN ON PAGE 16 OF THE GREEN RESPONSE BOOKLET
13. I AM NOT AN OPERATIONS OR INSTALLATION CHIEF

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 29 IN THE GREEN RESPONSE BOOKLET

29. SELECT ONE OR MORE OF THE COMPUTER PROCESSOR(S) THAT YOU OPERATE OR EXECUTE YOUR PROGRAMS ON AT YOUR DATA PROCESSING INSTALLATION.

1. AMDAHL V70
2. IBM 360/30
3. IBM 360/40
4. IBM 360/50
5. IBM 495X SERIES/1
6. IBM 2922
7. IBM SYSTEM/32
8. IBM 3713/5/7
9. IBM 3741/2/7
10. IBM 511C
11. IBM 4341
12. BURROUGHS 350C
13. BURROUGHS 480C
14. HEWLETT-PACKARD (HP) 3000
15. HETRA MARK VII
16. DEC PDP-11
17. DATA GRAPHICS 4500
18. OTHER - PLEASE LIST ON PAGE 16 OF THE GREEN RESPONSE BOOKLET

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 30 IN THE GREEN RESPONSE BOOKLET

30. SELECT ONE OR MORE OF THE FOLLOWING WHICH YOU FEEL RATE A SPECIAL MOS OR SKILL DESIGNATOR.

1. INSTALLATION CHIEF
2. MARK IV PROGRAMMER
3. FORTRAN PROGRAMMER
4. DATA BASE MANAGEMENT SYSTEM PROGRAMMER
5. COMTEN SYSTEMS PROGRAMMER
6. TELEPROCESSING MONITOR SYSTEMS PROGRAMMER
7. MVS/MVT SYSTEMS PROGRAMMER
8. VM SYSTEMS PROGRAMMER
9. NETWORK CONTROL TECHNICIAN
10. SYSTEMS ANALYST
11. OTHER - PLEASE EXPLAIN ON PAGE 16 OF THE GREEN RESPONSE BOOKLET
12. NONE

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 31 IN THE GREEN RESPONSE BOOKLET

31. SHOULD TECHNICAL DATA PROCESSING PROFICIENCY TESTS BE USED AS CRITERIA FOR PROMOTION?

01. YES
02. NO

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 32 IN THE GREEN RESPONSE BOOKLET

32. WHAT DO YOU THINK IS THE BEST WAY TO CONDUCT DATA PROCESSING TRAINING?
(SELECT ONLY ONE ANSWER)

01. MILITARY FORMAL SCHOOL
02. CIVILIAN CONTRACTOR
03. ON-THE-JOB TRAINING
04. FORMAL CLASS AT LOCAL SITE BY CSS TEAM (MOBILE TRAINING TEAM)
05. FORMAL CLASS AT LOCAL SITE BY LOCAL PERSONNEL
06. OTHER-PLEASE EXPLAIN ON PAGE 16 OF THE GREEN RESPONSE BOOKLET

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 33 IN THE GREEN RESPONSE BOOKLET

33. HOW DID YOU ENTER THE 4000 FIELD?

- 01. ASSIGNMENT FROM RECRUIT TRAINING
- 02. LATERAL MOVE
- 03. ATOP
- 04. GUARANTEED ENLISTMENT/REENLISTMENT OPTION
- 05. OTHER - PLEASE EXPLAIN ON PAGE 16 OF THE GREEN RESPONSE BOOKLET

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 34 IN THE GREEN RESPONSE BOOKLET

34. HOW LONG HAS IT BEEN SINCE YOU ATTENDED THE COMPUTER SCIENCE SCHOOL'S BASIC OPERATOR COURSE? (SELECT ONLY ONE ANSWER)

- 01. LESS THAN SIX MONTHS
- 02. 6-12 MONTHS
- 03. 13-24 MONTHS
- 04. 25-36 MONTHS
- 05. MORE THAN 36 MONTHS
- 06. I AM NOT AN OPERATOR
- 07. I DID NOT ATTEND THE BASIC OPERATOR COURSE

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 35 IN THE GREEN RESPONSE BOOKLET

35. BASED ON YOUR WORKING EXPERIENCE IN THE FIELD, THE QUALITY OF COMPUTER SCIENCE TRAINING PROVIDED TO YOU HAS BEEN

- 01. UNSATISFACTORY (PLEASE EXPLAIN ON PAGE 16 OF THE GREEN RESPONSE BOOKLET)
- 02. BELOW AVERAGE (PLEASE EXPLAIN ON PAGE 16 OF THE GREEN RESPONSE BOOKLET)
- 03. AVERAGE
- 04. ABOVE AVERAGE
- 05. EXCELLENT
- 06. OUTSTANDING

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 36 OF THE GREEN RESPONSE BOOKLET

36. SHOULD ON-THE-JOB TRAINING (OJT) OCCUR BEFORE FORMAL SCHOOL TRAINING?

- 01. YES -- OJT SHOULD OCCUR BEFORE FORMAL SCHOOL TRAINING
- 02. NO -- FORMAL SCHOOLING SHOULD OCCUR BEFORE CJT
- 03. OTHER -- ORDER OF TRAINING IS UNIMPORTANT

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 37 OF THE GREEN RESPONSE BOOKLET

37. SELECT ONE OR MORE OF THE MCS COMBINATIONS BELOW WHICH COULD BE EFFECTIVELY CROSS-TRAINED IN A REASONABLE PERIOD OF TIME USING OJT FOR GREATER OCC FLD 40 FLEXIBILITY.

- | | |
|--------------|--|
| 1. 4034/4038 | 9. 4038/4069 |
| 2. 4034/4063 | 10. 4063/4065 |
| 3. 4034/4065 | 11. 4063/4066 |
| 4. 4034/4066 | 12. 4063/4069 |
| 5. 4034/4069 | 13. 4065/4066 |
| 6. 4038/4063 | 14. 4065/4069 |
| 7. 4038/4065 | 15. 4066/4069 |
| 8. 4038/4066 | 16. OTHER - PLEASE EXPLAIN ON PAGE 16 OF
THE GREEN RESPONSE BOOKLET |

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 38 IN THE GREEN RESPONSE BOOKLET

38. SELECT ONE OR MORE OF THE STATEMENTS BELOW WHICH YOU CONSIDER TO BE TRUE ABOUT LATERAL MOVES INTO OCC FLD 40.

1. LATERAL MOVES DELAY MY PROMOTION W/IN OCC FLD 40.
2. I AM UNCOMFORTABLE WORKING FOR A PERSON OF HIGHER RANK WHO IS A RECENT LATERAL MOVE WITH LESS HANDS-ON EXPERIENCE THAN MYSELF.
3. LATERAL MOVES REDUCE PRODUCTIVITY BECAUSE EXPERIENCED OCC FLD 40 PERSONNEL ARE ADDITIONALLY TASKED WITH CONDUCTING OJT FOR THEM.
4. LATERAL MOVES' LACK OF EXPERIENCE CAUSES THEM TO BE RATED BELOW THEIR PEERS ON FITNESS REPORTS.
5. LATERAL MOVES SHOULD BE TRAINED BY MANAGED OJT RATHER THAN OJT.
6. LATERAL MOVES' EXPERIENCE OUTSIDE OCCFLD 40 IS VALUABLE ON THE JOB.
7. OTHER - PLEASE LIST ON PAGE 16 OF THE GREEN RESPONSE BOOKLET

THE FOLLOWING QUESTION CORRESPONDS TO BLOCK 39 OF THE GREEN RESPONSE BOOKLET

39. SELECT ONE OR MORE OF THE FOLLOWING STATEMENTS WHICH YOU CONSIDER TO DESCRIBE YOUR INSTALLATION'S FOLLOW-UP TRAINING PROGRAM FOR YOUR MOS.

1. FOLLOW-UP TRAINING IN MY MCS IS ADEQUATE.
2. FOLLOW-UP TRAINING IN MY MOS IS INADEQUATE.
3. FOLLOW-UP TRAINING IN MY MCS IS AVAILABLE THROUGH OJT
4. FOLLOW-UP TRAINING IN MY MOS IS AVAILABLE THROUGH MANAGED OJT
5. FOLLOW-UP TRAINING IN MY MCS IS AVAILABLE THROUGH SELF-PACED COURSES
6. OTHER - PLEASE EXPLAIN ON PAGE 16 OF THE GREEN RESPONSE BOOKLET

YOU HAVE NOW COMPLETED PART I. PLEASE WAIT FOR THE ADMINISTRATOR TO PROVIDE FURTHER INSTRUCTIONS BEFORE CONTINUING.

PART II JOB SATISFACTION SECTION

**INSTRUCTIONS FOR COMPLETING PART II OF THE GREEN RESPONSE BOOKLET
ARE FOUND IN THE JOB SATISFACTION SURVEY BOOKLET PROVIDED.**

PLEASE DO NOT WRITE IN THE JOB SATISFACTION SURVEY BOOKLET.

PART III - TASK SECTION

INSTRUCTIONS FOR COMPLETING PART III OF THE GREEN RESPONSE BOOKLET:

READ THROUGH THE ENTIRE TASK SECTION OF THIS SURVEY BOOKLET. BLACKEN THE CIRCLE (UNDER THE TASK DONE COLUMN) FOR EACH TASK STATEMENT WHICH YOU PERFORM IN YOUR PRESENT BILLET. DO NOT BLACKEN THE CIRCLES FOR TASKS THAT YOU DO NOT PERFORM. DO NOT BLACKEN THE NUMBERS TO THE RIGHT OF THE CIRCLES AT THIS TIME. SEPARATE INSTRUCTIONS WILL FOLLOW FOR THAT PART OF THE SURVEY AFTER YOU HAVE COMPLETED MARKING THE TASKS THAT YOU ACTUALLY PERFORM.

E X A M P L E S

SURVEY BOOKLET

GREEN RESPONSE BOOKLET

TASK DONE

4. SET TAPE DRIVE CONTROLS	0	0004	1	2	3	4	5	6	7
8. SET DISK DRIVE CONTROLS	0	0008	1	2	3	4	5	6	7
32. DEGAUSS TAPE	0	0032	1	2	3	4	5	6	7

1. OPERATE CONSOLE KEYBOARD
2. RESPOND OR REACT TO COMPUTER SYSTEM COMMAND, QUERY OR MESSAGE ON CONSOLE
3. MOUNT TAPES ON TAPE DRIVE
4. SET TAPE DRIVE CONTROLS
5. MONITOR TAPE DRIVE OPERATION
6. DISMOUNT TAPES FROM TAPE DRIVE
7. MOUNT DISK PACK ON DISK DRIVE
8. SET DISK DRIVE CONTROLS
9. DISMOUNT DISK PACK FROM DISK DRIVE
10. LOAD CARDS INTO CARD READER PUNCH
11. SET CARD READER PUNCH CONTROLS
12. MONITOR READER PUNCH OPERATION
13. UNLOAD CARDS FROM CARD READER PUNCH
14. LOAD CARDS INTO CARD READER
15. SET CARD READER CONTROLS
16. MONITOR CARD READER OPERATION
17. UNLOAD CARDS FROM CARD READER
18. MOUNT PAPER ON 1403 OR 3211 PRINTER
19. SET 1403 OR 3211 PRINTER CONTROLS
20. MONITOR 1403 OR 3211 PRINTER OPERATION
21. BREAK DOWN OUTPUT FROM 1403 OR 3211 PRINTER
22. DISMOUNT PAPER FROM 1403 OR 3211 PRINTER
23. PROCESS INCOMING TAPES

24. PULL TAPE FOR MAILING
25. LABEL DISK PACK
26. LABEL TAPE
27. CLEAN TAPE
28. CERTIFY TAPE
29. INITIALIZE TAPE
30. STORE TAPE
31. PULL SCRATCH TAPE
32. DEGAUSS TAPE
33. MAINTAIN ALTERNATE LIBRARY
34. CHECK TEMPERATURE AND HUMIDITY GAUGES OR GRAPHS
35. PREPARE PERIPHERAL DEVICE FOR CLEANING
36. CLEAN INTERIOR OF PERIPHERAL DEVICE
37. PREPARE PERIPHERAL DEVICE FOR OPERATION
38. GATHER CLEANING MATERIAL
39. CLEAN COMPUTER ROOM FLOOR AND EXTERNAL SURFACES
40. STORE CLEANING PRODUCT
41. CHECK HUMIDIFIER ON MICROFICHE PROCESSOR
42. LOAD MICROFILM INTO MICROFICHE PROCESSOR
43. MOUNT FILM TAKE-UP SPOOL ON MICROFICHE PROCESSOR
44. LOAD FLOPPY DISK INTO MICROFICHE PROCESSOR
45. MOUNT INPUT TAPE ON MICROFICHE PROCESSOR
46. LOAD MICROFICHE PROGRAM INTO MICROFICHE PROCESSOR
47. START MICROFICHE PROCESSING
48. STOP MICROFICHE PROCESSING

49. DISMOUNT INPUT TAPE FROM MICROFICHE PROCESSOR
50. UNLOAD FLOPPY DISK FROM MICROFICHE PROCESSOR
51. REMOVE FILM TAKE UP SPOOL FROM MICROFICHE PROCESSOR
52. CHECK CHEMICAL LEVELS ON MICROFICHE DEVELOPER
53. CHECK WATER LEVEL ON MICROFICHE DEVELOPER
54. START MICROFICHE DEVELOPER
55. MOUNT MICROFILM ON MICROFICHE DEVELOPER
56. THREAD MICROFILM ON TAKE-UP SPOOL ON MICROFICHE DEVELOPER
57. STOP MICROFICHE DEVELOPER
58. REMOVE TAKE-UP SPOOL FROM MICROFICHE DEVELOPER
59. MOUNT FILM SPOOL ON MICROFICHE CUTTER MACHINE
60. ALIGN FILM ON MICROFICHE CUTTER MACHINE
61. START MICROFICHE CUTTER MACHINE
62. STOP MICROFICHE CUTTER MACHINE
63. REMOVE MICROFICHE FROM MICROFICHE CUTTER MACHINE STACKER
64. LOAD TAPE ON XEROX MINI COMPUTER
65. LOAD PAPER ON XEROX MINI COMPUTER
66. SET PROCESSOR CONTROLS ON XEROX MINI COMPUTER
67. START PROCESSOR ON XEROX MINICOMPUTER
68. REGULATE PRINT QUALITY ON XEROX MINI COMPUTER
69. REMOVE PRINTED PAPER FROM XEROX MINI COMPUTER
70. UNLOAD TAPE FROM XEROX MINI COMPUTER
71. SET DECOLLATOR CONTROLS
72. LOAD PAPER INTO DECOLLATOR

73. START DECOLLATOR
74. MONITOR DECOLLATER OPERATION
75. UNLOAD CARBON FROM DECCLLATER
76. UNLOAD PAPER FROM DECOLLATER
77. SET BURSTER CONTROLS
78. LOAD FORMS INTO BURSTER
79. START BURSTER
80. MONITOR BURSTER OPERATICA
81. UNLOAD FORMS FROM BURSTER
82. LOAD CARDS INTO SORTER
83. SET SORTER CONTROLS
84. START SORTER
85. MONITOR SORTER OPERATION
86. REMOVE CARDS FROM SORTER
87. WIRE INTERPRETER BOARD
88. INSERT BOARD INTO INTERPRETER
89. LOAD CARDS INTO INTERPRETER
90. SET INTERPRETER CCTRLS
91. START INTERPRETER
92. MONITOR INTERPRETER OPERATION
93. UNLOAD CARDS FROM INTERPRETER
94. REMOVE BOARD FROM INTERPRETER
95. WIRE REPRODUCER BOARD
96. INSERT BOARD INTO REPRCDUCER
97. LOAD CARDS INTO REPRODUCER

98. START REPRODUCER
99. MONITOR REPRODUCTION OPERATION
100. UNLOAD CARDS FROM REPRCDUCER
101. REMOVE BOARD FROM REPRODUCER
102. LOAD PROGRAM INTO KEYPUNCH
103. LOAD CARDS INTO KEYPUNCH
104. SET KEYPUNCH CONTROLS
105. FEED OR REGISTER CARDS INTO KEYPUNCH
106. KEYPUNCH CARDS
107. UNLOAD CARDS FROM KEYPUNCH
108. WIRE COLLATOR BOARD
109. INSERT BOARD INTO COLLATOR
110. LOAD CARDS INTO COLLATOR
111. START COLLATOR
112. MONITOR COLLATOR OPERATION
113. UNLOAD CARDS FROM COLLATOR
114. REMOVE BOARD FROM COLLATOR
115. SET PAPER TAPE READER CONTROLS
116. LOAD TAPE INTO PAPER TAPE READER
117. ADJUST PAPER TAPE READER CONTROLS
118. START PAPER TAPE READER
119. MONITOR PAPER TAPE READER OPERATION
120. REMOVE TAPE FROM PAPER TAPE READER
121. SET PAGE READER OR OPTICAL CHARACTER READER (OCR) CONTROLS
122. LOAD DOCUMENTS INTO PAGE READER OR OCR

123. ADJUST PAGE READER OR OCR CONTROLS
124. START PAGE READER OR OCR
125. MONITOR PAGE READER OR OCR OPERATION
126. REMOVE DOCUMENTS FROM PAGE READER OR OCR
127. CONVERT FROM COMMERCIAL POWER TO GENERATOR POWER
128. INITIAL PROGRAM LOAD (IPL) SYSTEM
129. INITIAL MONITOR LOAD (IML) CONTROLLERS
130. PERFORM COMPUTER ROOM EMERGENCY OPERATIONS
131. POWER UP PERIPHERALS
132. COORDINATE NETWORK JOB ENTRY (NJE) NETWORK
133. PERFORM HASPCOM PROCEDURES USING EXTERNAL WRITER
134. DETERMINE PERIPHERALS DEVICE AVAILABILITY
135. MAINTAIN COMPUTER ROOM LOG
136. PROVIDE ASSISTANCE TO SYSTEMS PERSONNEL OR CUSTOMER ENGINEERS (CE) IN RESOLUTION OF SYSTEM PROBLEMS
137. MONITOR SYSTEM (CMEGAMON, CGM-FLETE, ROSCOE)
138. INITIALIZE VOLUME (TAPE OR DISK)
139. ASSIGN SYSTEM RESOURCES TO BALANCE WORKLOAD
140. DIRECT COMPUTER ROOM PERSONNEL IN RESPONSE TO SYSTEM COMMANDS OR MESSAGES
141. GENERATE PRODUCTION JOB REQUEST
142. SUBMIT JOB FOR PROCESSING
143. DISTRIBUTE INPUT OR OUTPUT
144. VERIFY SUCCESSFUL JOB EXECUTION BY COMPLETION CODES ON DEALLOCATIONS
145. OPTIMIZE PRODUCTION JOB PACKAGE AS REQUIRED

146. SCREEN PRODUCTION JOB REQUEST FOR ACCURACY AND COMPLETENESS
147. REVIEW ENTIRE PRODUCTION JOB DOCUMENTATION PACKAGE PRIOR TO EXECUTION
148. PREPARE OR SETUP JOB FOR PRODUCTION IN ACCORDANCE WITH (IAW) JOB DOCUMENTATION
149. MONITOR JOB DURING EXECUTION
150. MONITOR JOB FLOW (SYSTEM STATUS)
151. TROUBLESHOOT PRODUCTION ABNORMAL END OF JOB (ABENDS) OR JOB DOCUMENTATION PROBLEMS
152. PERFORM QUALITY CONTROL (QC) CHECKS ON OUTPUT
153. PREPARE OUTPUT FOR SUPPLEMENTAL OPERATIONS (INTERPRETING, BOOKING AND BINDING, BURSTING IAW JOB DOCUMENTATION)
154. ORGANIZE INPUT/OUTPUT FOR DISTRIBUTION
155. MAINTAIN PRODUCTION JOB DOCUMENTATION FILE
156. ANALYZE PRODUCTION JOB FOR OPTIMIZATION
157. CONDUCT ANNUAL AUDIT OF PRODUCTION JOBS
158. SCHEDULE PRODUCTION JOBS
159. DESIGNATE CLASSIFIED MATERIAL FOR DESTRUCTION
160. DESIGNATE CLASSIFIED OR PRIVACY ACT MATERIAL
161. SECURE SITE OR EQUIPMENT FOR CLASSIFIED PROCESSING
162. EVALUATE CUSTOMER'S REQUEST TO DETERMINE PROGRAM REQUIREMENT
163. DRAW LAYOUT OF PROGRAM INPUTS AND OUTPUTS
164. WRITE PROGRAM FLOWCHART
165. CODE (WRITE) SOURCE PROGRAM
166. KEY IN (CODE) PROGRAM DATA

167. WRITE COMPILER JCB CONTRCL LANGUAGE (JCL)
168. KEY IN COMPILER JCL DATA
169. COMPILE OR ASSEMBLE PROGRAM
170. WRITE PROGRAM TEST JCL
171. TEST APPLICATIONS PROGRAM
172. WRITE PRODUCTION PROCEDURE
173. TEST PRODUCTION PROCEDURE
174. WRITE OR UPDATE PRODUCTION JCB DOCUMENTATION
175. MOVE TEST TO PRODUCTION
176. FILE PROGRAM LISTING
177. DRAW LAYOUT OF PRCCEDURE INPLTS/OUTPUTS
178. WRITE PROCEDURE FLOWCHART
179. WRITE NEW PROCEDURE UPDATE OR MODIFY
180. KEY IN PROCEDURE DATA
181. WRITE PROCEDURE TEST JCL
182. TEST PROCEDURE
183. DRAW LAYOUT OF SYSTEM INPUTS/OUTPUTS
184. WRITE SYSTEM FLOWCHART
185. TEST SYSTEM (OUTGOING)
186. RELEASE SYSTEM (CLASS I ONLY)
187. LOAD SYSTEM (CLASS I ONLY)
188. TEST SYSTEM (INCCPING. CLASS I ONLY)
189. CREATE AN INDEX LIST
190. ADD OR DELETE DATA SET OR MEMBER
191. RESTORE DATA SET (LIBRARY)

192. COMPRESS A LIBRARY PARTITIONED DATA SET (PDS)
193. CREATE A BACKUP COPY OF A DATA SET OR LIBRARY PDS
194. MOVE MEMBERS
195. RENAME LIBRARIES
196. RENAME A DATA SET (LIBRARY) OR A PDS MEMBER
197. RESEARCH PROGRAMS, PROCEDURES AND DATA SETS
198. DETERMINE WHICH PROGRAMS, PROCEDURES OR DATA SETS CAN
BE DELETED
199. CREATE MICROFICHE TAPE OF DELETED MATERIAL
200. RUN UTILITY SCRATCH
201. FILE DOCUMENTATION PACKAGE OF DELETED MATERIAL
202. LOG-IN REQUEST
203. UPDATE REQUEST STATUS
204. LOG-OUT REQUEST
205. FILE COMPLETED REQUEST
206. DETERMINE OR EVALUATE PROGRAMMING PROBLEMS
207. RECEIVE TAPES AND REFERENCES FROM VENDORS
208. USE IBM OR OTHER SYSTEM REFERENCE MATERIALS
209. ALLOCATE DATA SETS
210. LOAD RELEASE TAPES
211. DETERMINE DATA BASE REQUIREMENTS
212. FORMAT DATA BASE DATA SETS (UTILITY)
213. INITIALIZE DATA BASE
214. RESPOND TO DATA BASE MANAGEMENT SYSTEM (DBMS) FAILURES
215. MAINTAIN DBMS SECURITY

- 216. TEST DBMS PERFORMANCE
- 217. TUNE DBMS
- 218. PROVIDE ASSISTANCE TO DBMS USERS
- 219. LOAD, UNLOAD OR RELOAD DBMS FILES
- 220. RESTORE DBMS TRANSACTIONS USING PROTECTION
LOADING TAPES
- 221. IDENTIFY APPROPRIATE PROGRAM FOR PROCESSING
- 222. IDENTIFY PROGRAM INPUT/OUTPUT
- 223. DELIVER PROGRAM INPUT TO OPERATOR
- 224. EVALUATE PROGRAM OUTPUT
- 225. DELIVER PROGRAM OUTPUT TO CUSTOMER
- 226. DEBUG APPLICATIONS PROGRAM OR SYSTEM
- 227. TRANSLATE OR CONVERT PROGRAM INTO ANOTHER PROGRAMMING
LANGUAGE
- 228. CONDUCT A STRUCTURED PROGRAMMING WALK-THROUGH
- 229. PRINT OR PUNCH A SEQUENTIAL DATA SET, PDS OR PDS MEMBER
- 230. LIST CATALOG ENTRIES, PDS DIRECTORY OR VOLUME TABLE OF
CONTENTS (VTOC)
- 231. BUILD OR UPDATE PROGRAM, PROCEDURE LIBRARY (PROCCLIB) OR
LOAD LIBRARY (LCADLIB)
- 232. OVERRIDE A CATALOGED JCL PROCEDURE
- 233. EVALUATE SOFTWARE, DOCUMENTATION AND OUTPUT FOR
COMPLIANCE WITH STANDARDS OR SPECIFICATIONS
- ✓ 234. TRAIN PERSONNEL IN APPLICATIONS PROGRAMMING TECHNIQUES
- ✓ 235. SUPERVISE PERSONNEL PERFORMING APPLICATIONS PROGRAMMING
DUTIES
- ✓ 236. PROVIDE ASSISTANCE TO CUSTOMERS OR USERS
- 237. PROVIDE ASSISTANCE TO APPLICATIONS PROGRAMMERS

- Start
System
Programs*
- 238. ESTABLISH OR MAINTAIN FUNCTIONAL DATA DICTIONARY USING DATA MANAGER
 - 239. LAYOUT SYSTEM INPUT/OUTPUT CONFIGURATION
 - 240. DEVELOP SYSTEM GENERATION CHECKLIST OR PLAN OF ACTION
 - 241. APPLY AMDAHL SEA CODE
 - 242. CODE SYSTEM MULTI VIRTUAL STORAGE, MULTIPLE VARIABLE TASK OR VIRTUAL MACHINE (MVS, MVT OR VM) MACROS
 - 243. ASSEMBLE SYSTEM (MVS/MVT OR VM) MACROS
 - 244. PRODUCE STAGE II JOB STREAM
 - 245. EXECUTE STAGE II JOB STREAM
 - 246. LINK JES 2 MODULES
 - 247. UPDATE SYSTEM PARAMETERS (SYS1.PARMLIB MEMBERS)
 - 248. PROCESS INSTALLATION VERIFICATION PROCEDURES (IVP)
 - 249. UPDATE SYSTEM CATALOG(S)
 - 250. CREATE OR TAKE SYSTEMS BACKUPS
 - 251. CREATE OR MAINTAIN SYSTEM BACKUP PROCEDURES
 - 252. BUILD VIRTUAL MACHINE (VM) DIRECTORY
 - 253. BUILD VM NUCLEUS
 - 254. INSTALL VIRTUAL MACHINE (VM) OPTIONS (SUCH AS REMOTE SPOOLING COMMUNICATIONS SUBSYSTEM (RSCS) OR VIRTUAL MACHINE/PROGRAMMING EXTENSION (VM/PE)
 - 255. TEST OR VERIFY OPERATING SYSTEM GENERATION
 - 256. INSTALL PROPRIETARY SOFTWARE PRODUCTS OR UPDATES
 - 257. INSTALL VIRTUAL MACHINE (VM) OPERATING SYSTEM
 - 258. INSTALL VM OPTIONS (SUCH AS RCSC OR VM/PE)
 - 259. CORRECT SYSGEN PROCESS
 - 260. MAINTAIN SYSTEM TECHNICAL REFERENCE LIBRARY

261. WRITE OR UPDATE SYSTEMS PORTION OF INSTALLATION USERS GUIDE
262. PROVIDE TECHNICAL SUPPORT (VERBAL OR WRITTEN INSTRUCTIONS OR FORMAL CLASS) FOR ALL SYSTEM USERS
263. ANALYZE OPERATING SYSTEM PERFORMANCE
264. TUNE OPERATING SYSTEM
265. TROUBLESHOOT OPERATING SYSTEM FAILURE OR STOPPAGE
266. MODIFY OPERATING SYSTEM USING SYSTEM MODIFICATION PROGRAM (SMP) FOR MVS OR USING CMS FOR VM
267. CODE AUTHORIZED USER ACCESS FILE
268. DEFINE FILE ACCESS USING TOP SECRET
269. ESTABLISH OR UPDATE INSTALLATION PROCESSING STANDARDS
270. COORDINATE SYSTEM CHANGES TO ENSURE ALTERNATE SITE COMPATIBILITY
271. RECEIVE TELECOMMUNICATION NETWORK
272. CERTIFY VENDOR SUPPORT CHANGES
273. IMPLEMENT SYSTEM CHANGE PACKAGES OR EMERGENCY URGENT CHANGE PACKAGE (EUCP)
274. LAYOUT TELEPROCESSING NETWORK SOFTWARE CONFIGURATION
275. LAYOUT TELEPROCESSING NETWORK HARDWARE CONFIGURATION
276. CODE COMTEN CONFIGURATION PARAMETERS
277. CODE OR APPLY MODIFICATIONS TO COMTEN MODULES AND MACROS
278. ASSEMBLE OR LINK COMTEN MODULES AND MACROS
279. TEST OR VERIFY COMTEN GENERATION
280. COORDINATE TELEPROCESSING NETWORK CONFIGURATION CHANGES WITH OTHER NODES
281. PROVIDE TRAINING TO PERSONNEL AT OTHER TELEPROCESSING NETWORK NODES

282. PROVIDE DIAGNOSTIC ASSISTANCE TO OTHER TELEPROCESSING NETWORK NODES
283. CODE ACCESS TABLE FOR TELEPROCESSING NETWORK SECURITY
284. DEFINE TERMINAL CHARACTERISTICS TO TELEPROCESSING MONITORS
285. CODE OR APPLY SECURITY EXITS AND ADDITIONAL FUNCTIONS TO TELEPROCESSING MONITOR
286. INTEGRATE OPERATING SYSTEM SUPPORT PRODUCTS (SUCH AS SECURITY SYSTEMS, JES SPOOLING SYSTEM OR TAPE MANAGEMENT SYSTEM) INTO A TELEPROCESSING MONITOR
287. ANALYZE TELEPROCESSING NETWORK PERFORMANCE
288. TUNE TELEPROCESSING NETWORK
289. INSTALL DIAGNOSTIC EQUIPMENT ON FRONT END PROCESSOR (FEP) OR TELEPROCESSOR
290. TROUBLESHOOT TELEPROCESSING SYSTEM OR NETWORK FAILURE OR STOPPAGE
291. PROGRAM TELEPROCESSING LINE SIMULATOR OR DATASCOPE
292. TROUBLESHOOT INDIVIDUAL USER OUTAGE
293. INSTALL COMMUNICATIONS LINES
294. INSTALL MODEMS
295. INSTALL TELECOMMUNICATION TERMINALS
296. PROVIDE ASSISTANCE TO TELEPROCESSING NETWORK USERS
297. OPERATE COMTEN CCNSOLE
298. COORDINATE MAINTENANCE SUPPORT WITH IBM ON ADPE-FMF EQUIPMENT
299. INSPECT ADPE-FMF EQUIPMENT
300. MONITOR UTILIZATION OF ADPE-FMF EQUIPMENT
301. DEVELOP APPROPRIATE ANNEXES TO OPERATION PLANS OR ORDERS

302. ESTABLISH OR COORDINATE COMMUNICATIONS WITH COMMUNICATIONS-ELECTRONICS OFFICER (CEO)
303. TEST OR VERIFY ELECTRICAL SUPPLIES (GENERATORS, CIRCUITS, OR LINES) FOR ADPE-FMF EQUIPMENT
304. PREPARE ADPE-FMF EQUIPMENT FOR DEPLOYMENT
305. TRAIN FUNCTIONAL USERS ON ADPE-FMF EQUIPMENT OPERATION
306. TRAIN FUNCTIONAL USERS ON ADPE-FMF EQUIPMENT APPLICATIONS
307. DISTRIBUTE CLASS IB AND CLASS II SOFTWARE FOR ADPE-FMF USERS
308. PERFORM PREVENTIVE MAINTENANCE (PM) ON ADPE-FMF EQUIPMENT
309. MAINTAIN LIBRARY OF ADPE-FMF APPLICATIONS SOFTWARE AND DOCUMENTATION
310. PROVIDE ASSISTANCE TO ADPE-FMF FUNCTIONAL USERS
311. SUPERVISE EXECUTION OF SYSTEM BACKUP PROCEDURES
312. SUPERVISE PERSONNEL PERFORMING SYSTEMS PROGRAMMING DUTIES
- ✓ 313. EVALUATE SOFTWARE, DOCUMENTATION AND OUTPUT FOR COMPLIANCE WITH STANDARDS OR SPECIFICATIONS
- ✓ 314. TRAIN PERSONNEL IN APPLICATIONS PROGRAMMING TECHNIQUES
- ✓ 315. SUPERVISE PERSONNEL PERFORMING APPLICATIONS PROGRAMMING DUTIES
316. WRITE CLASSIFIED MATERIAL SECURITY HANDLING PROCEDURES
317. EVALUATE AUTOMATED DATA PROCESSING (ADP) SECURITY PROGRAMS
318. SUPERVISE MAINTENANCE OF ADP EQUIPMENT
319. SUPERVISE PERSONNEL OPERATING ADP EQUIPMENT
320. SUPERVISE SYSTEMS ANALYSIS AND DESIGN TEAMS

- 321. SUPERVISE PERSONNEL PERFORMING TELEPROCESSING OPERATIONS
- 322. REVIEW ADP EQUIPMENT DAILY UTILIZATION LOG
- 323. PREPARE ADP MANAGEMENT REPORTS
- 324. PREPARE ADP BUDGET
- 325. RECOMMEND NEW HARDWARE PROCUREMENT
- 326. TRAIN PERSONNEL IN ADP SECURITY REQUIREMENTS
- 327. TRAIN PERSONNEL IN SYSTEMS PROGRAMMING TECHNIQUES
- 328. TRAIN PERSONNEL IN PRODUCTION CONTROL PROCEDURES
- 329. TRAIN PERSONNEL IN INPUT/OUTPUT OPERATIONS
- 330. TRAIN PERSONNEL IN COMPUTER ROOM OPERATIONS
- 331. TRAIN PERSONNEL IN PRODUCTION ANALYSIS PROCEDURES

IF THERE ARE ANY TASKS THAT YOU PERFORM THAT WERE NOT LISTED IN THE SURVEY BOOKLET PLEASE WRITE THEM ON PAGE 16 OF THE GREEN RESPONSE BOOKLET.

NOW THAT YOU HAVE INDICATED ALL THE TASKS THAT YOU PERFORM IN YOUR PRESENT BILLET, READ THE INSTRUCTIONS ON HOW TO TIME RATE THE TASKS YOU PERFORM.

TO RATE THE RELATIVE AMOUNT OF TIME SPENT ON EACH TASK, YOU MUST FIRST DECIDE HOW MUCH TIME YOU SPEND ON EACH TASK. THEN COMPARE THIS TIME WITH THE AMOUNT OF TIME SPENT ON YOUR OTHER MARKED TASKS. USING THE "SEVEN-POINT" TIME SPENT SCALE BELOW, INDICATE HOW MUCH TIME YOU SPEND PERFORMING THAT TASK. IF YOU SPEND "VERY MUCH" TIME DOING THAT TASK COMPARED TO YOUR OTHER TASKS, RATE THAT TASK A "7" (VERY MUCH) IN THE GREEN RESPONSE BOOKLET.

TIME SPENT SCALE

1. VERY LITTLE
2. BELOW AVERAGE
3. SLIGHTLY BELOW AVERAGE
4. AVERAGE
5. SLIGHTLY ABOVE AVERAGE
6. ABOVE AVERAGE
7. VERY MUCH

THE FOLLOWING EXAMPLE WILL SHOW YOU HOW TO MARK YOUR RESPONSES.
 THE FIRST TASK WAS DONE VERY MUCH. THE SECOND TASK WAS NOT CHECKED
 SO IT IS NOT TIME RATED BECAUSE IT WAS NOT PERFORMED. THE THIRD
 TASK WAS RATED AS BEING PERFORMED A BELOW AVERAGE AMOUNT OF TIME.

TIME SPENT SCALE

1. VERY LITTLE
2. BELOW AVERAGE
3. SLIGHTLY BELOW AVERAGE
4. AVERAGE
5. SLIGHTLY ABOVE AVERAGE
6. ABOVE AVERAGE
7. VERY MUCH

E X A M P L E S

SURVEY BOOKLET

GREEN RESPONSE BOOKLET

TASK DONE

4. SET TAPE DRIVE CONTROLS	0	0004	1	2	3	4	5	6	7
8. SET DISK DRIVE CONTROLS	0	0008	1	2	3	4	5	6	7
32. DEGAUSS TAPE	0	0032	1	2	3	4	5	6	7

TURN BACK TO PAGE 6 OF THE GREEN RESPONSE BOOKLET AND RECORD THE RELATIVE TIME SPENT FOR EACH TASK THAT YOU HAVE MARKED.

AGAIN, DO NOT TIME RATE TASKS THAT YOU DO NOT PERFORM. DO NOT BLACKEN MORE THAN ONE NUMBER FOR ANY TASK THAT YOU RATE.

AFTER YOU HAVE COMPLETED PART III, CONTINUE ON TO PART IV (WRITE-IN SECTION) AND PART V (REMARKS SECTION) FOUND ON THE LAST TWO PAGES OF THE GREEN RESPONSE BOOKLET.

MOS 4034 COMPUTER OPERATOR MSgt thru Pvt

I. SUMMARY

The computer operator operates a computer console and associated peripheral equipment to process data in accordance with scheduled operations.

II. REQUIREMENTS/PREREQUISITES

1. Possess GCT required to attend formal schools; refer to the current edition of MCO P1500.12, Marine Corps Formal Schools Catalog.
2. Make minimum required score on the Electronic Data Processing Test (EDPT).
3. Have completed 6 months on-the-job training (OJT) in computer operations.

III. DUTIES AND TASKS

MSgt thru Pvt

1. Performs computer systems operations functions, to include: Disk drive, card punch and card reader equipment.
2. Operates printer, to include loading continuous form paper and setting controls.
3. Operates computer console on peripheral equipment such as tape drive and input/output services by manipulating keyboard.
4. Manages magnetic media library, to include:
 - a. Using tape log and transmittal sheet to process incoming tape.
 - b. Preparing tape for mailing and using tape log and transmittal sheet to mail tape.
 - c. Initialing and labeling magnetic tape.
 - d. Initialing and labeling disk packs.
 - e. Cleaning magnetic tape and making appropriate log entries.
 - f. Certifying magnetic tape and making appropriate log entries.
 - g. Using Scratch Tape Listing to prepare scratch tapes.
 - h. Maintaining alternate tape library.
5. Performs computer input/output control functions, to include:
 - a. Operating microfilm processor to produce microfiche.
 - b. Removing carbon from printed output using decollator.
 - c. Operating burster to produce separated output.
6. Performs initial program load.

- * 7. Generates and maintains teleprocessing hardware, to include:
- a. Installing and testing teleprocessing peripheral devices.
 - b. Locating and identifying the cause of teleprocessing system failures.
 - c. Entering correct operand and command to operate appropriate teleprocessing console.
 - d. Operating and maintaining diagnostic modem networks.
 - e. Monitoring network performance.
 - f. Performing first level corrective actions involving teleprocessing software.

MSgt thru Cpl

8. Operates master computer console by manipulating keyboard to respond to computer system commands, queries and messages.

MSgt thru Sgt

9. Supervises, directs and trains in the operation of off-line equipment.
10. Supervises the operation of punched card and magnetic tape/device filing systems and makes distribution of reports and programs within the data processing activity.
11. Controls and directs a shift of operations of the computer systems.

MSgt thru SSgt

12. Checks and evaluates operations to make certain computer operations are in accordance with standard procedures.
13. Performs scheduling to assure efficient job flow through the computer.
14. Orients and instructs computer operators in the various operating systems utilized by the computers in the Marine Corps.
15. Designs diagnostic modem networks.

MSgt and GySgt

16. Supervises overall operations and provides scheduling guidance in a data processing facility operating multi-shifts.
17. Validates maintenance periods associated with the computer and peripheral equipment and maintains records necessary to verify the correctness of maintenance and service charges.

* May be Billet Specific

MSgt

18. Participates with technical personnel, such as: system analysts and data systems engineers and programmers concerning machine capabilities, machine operation or production problems associated with systems operations.

IV. RELATED DOT CLASSIFICATION/DOT CODE	RELATED MILITARY SKILL
Supervisor, Computer Operation 213.132-010	4038 Data Control
Computer-peripheral Equipment	Coordinator
Operator 213.382-010	

MOS 4038 DATA CONTROL COORDINATOR MGySgt thru Cpl

I. SUMMARY

The data control coordinator performs duties requiring detailed knowledge of the computer systems operations in a multi-programming environment.

II. REQUIREMENTS/PREREQUISITES

1. Be a graduate of an appropriate advanced formal technical school or complete a minimum of 6 months of managed on-the-job training (MOJT) in production control and quality control functions in computer operations.
2. Possess MOS 4034 with a minimum of two years experience in computer operations.
3. This MOS will be assigned and voided only by the authority of the CMC (Code MM).

III. DUTIES AND TASKS

MGySgt thru Cpl

1. Utilizes standard processing techniques and determines equipment requirements of computers operating under teleprocessing or multi-programming.
2. Maintains an operating log of all events occurring during operation of the computer systems.
3. Utilizes standard teleprocessing and multi-programming techniques and determines equipment requirements and limitations.
4. Assists programmers in debugging programs executing when memory dumps occur and bypassing and correcting steps of programs being processed in a multi-programming environment.
5. Utilizes Job Control Language (JCL), systems dumps and utility programs to perform procedure optimization.
6. Interfaces with customers at the point of input; returns output or notifies customers of delays.
7. Runs an Existing job.
8. Responds to ABENDS.
9. Maintains programmer library.

MGySgt thru Sgt

10. Extracts and maintains data for management, work measurement and equipment utilization reports.
11. Determines the stock level of supplies required to permit continuous operation of the computer systems.
12. Writes procedures.

MGySgt thru SSgt

13. Has working knowledge of all computer system linkage conventions, diagnostics and commands.

14. Performs scheduling for computer operations which will assure efficient job flow through the computer.

15. Conducts annual review of computer operations manual with customer and programmer analyst.

MGySgt thru GySgt

16. Participates with technical personnel, such as systems data analysts, data systems engineers and programmers concerning machine capabilities, operations or other production problems associated with system operations.

MGySgt and MSgt

17. Reviews and evaluates equipment utilization logs and makes recommendations for improvements in computer and associated equipment utilization for system operations.

MGySgt

18. Makes periodic inspection of data processing operations and control functions, and notes possible areas for improvement of processing procedures.

19. Prepares cost report estimates.

IV. RELATED DOT CLASSIFICATION/DOT CODE RELATED MILITARY SKILL

Chief Console Operator 213.132-010 4034 Computer Operator
Supervisor, Data Processing
Assistant Console Operator 213.382-010

MOS 4041 TELEPROCESSING SPECIALIST MGySgt thru Sgt

I. SUMMARY

This MOS is designated to identify those Marines with teleprocessing software skills. The teleprocessing specialist performs technical analysis and programming required to generate and maintain the teleprocessing system.

II. REQUIREMENTS/PREREQUISITES

1. Be qualified in MOS 4063, 4065 or 4069, or have 6 months teleprocessing experience.
2. Must have 2 years active duty remaining after attendance at COMTEN schools.
3. This MOS is assigned only as an additional MOS
4. This MOS will be assigned and voided only by the authority of the CMC (Code MM).

III. DUTIES AND TASKS

MGySgt thru SSgt

1. Interprets and assesses impact of additions or modifications to teleprocessing hardware and software.
2. Makes checklist of teleprocessing installation procedures.
3. Allocates system data sets for teleprocessing.
4. Modifies Job Control Language to install teleprocessing software products.
5. Applies teleprocessing software modifications
6. Codes teleprocessing Stage I MACROS.
7. Performs teleprocessing generation process.
8. Responds to COMTEN teleprocessing software failures.
9. Operates appropriate teleprocessing console.
10. Loads teleprocessing monitor software.
11. Maintains teleprocessing monitor software.
12. Maintains telecommunications access methods

MGySgt thru SSgt

13. Supervises personnel performing teleprocessing operations.
14. Trains or assists in training programmer personnel in the intricacies of the teleprocessing system for the front end processor in use.
15. Tunes teleprocessing network.

MGySgt thru GySgt

16. Manages teams working on specific teleprocessing tasks; coordinates team efforts.
17. Reviews automated data processing equipment daily utilization log.

12/1/64

MGySgt and MSgt

18. Assists system engineers and other technical experts when special COMTEN teleprocessing software problems are encountered.

19. Develops the programming required by new systems.

MGySgt

20. Develops procedural plans.

21. Prepares cost report estimates.

22. Assists in the preparation of feasibility studies and application plans.

IV. RELATED DOT CLASSIFICATION/DOT CODE	RELATED MILITARY SKILL
Systems Analyst, Electronic Data Processing	4069 Systems Programmer
012.167-066	4063/4065 Programmer
Programmer, Detail (Clerical)	COBOL/ALC
219.367-026	

REPRODUCED AT GOVERNMENT EXPENSE

MOS 4063 PROGRAMMER, COBOL thru
MOS 4066 PROGRAMMER, EDL MGySgt thru Pvt

I. SUMMARY

The programmer prepares, designs, and writes computer application programs, procedures, and systems. The programmer also provides customer assistance in dealing with the products of computer programs; deletes outmoded systems, trouble shoots programs, loads software, and maintains programmer libraries.

II. REQUIREMENTS/PREREQUISITES

Be a graduate of an appropriate formal technical school or have completed 6 months on-the-job training (OJT) in programming (COBOL/ALC/EDL) for computer systems in use; refer to the current edition of MCO P1500.12, Marine Corps Formal Schools Catalog.

III. DUTIES AND TASKS

MGySgt thru Pvt

1. Performs programming functions, to include:
 - a. Writing programs,
 - b. Writing procedures,
 - c. Running programs,
 - d. Operating input/output device (ROSCOE),
 - e. Loading software, and
 - f. Responding to Abnormal Job Termination (ABENDS).
2. Maintains programmer library.
3. Troubleshoots programs.
4. Maintains project status file.

MGySgt thru Cpl

5. Runs a job.
6. Provides customer assistance.

MGySgt thru Sgt

7. Creates user data base.

MGySgt thru SSgt

8. Performs supervisory duties of instructing, directing assignments and checking programming efforts of junior programmers.
9. Establishes and conducts on-the-job training in programming in appropriate language.

MGySgt thru GySgt

10. Analyzes programming techniques to assure economical programming effort, equipment utilization and effectiveness of techniques.

11. Performs basic system analyst functions, with technical guidance, such as designing records and forms layout, identifying data elements and preparing structured programming design and documentation charts to portray existing or proposed systems.

MGySgt and MSgt

12. Assists systems engineers when special software problems arise in the resolution of problems.

13. Performs systems analysis duties and confers with organizational personnel to determine data elements, input and output requirements and data to be processed.

14. Analyzes problems in terms of systems requirements and designs simple systems.

MGySgt

15. Makes periodic inspections of the data processing programming section and notes areas for possible improvement of programming effort.

16. Prepares cost report estimates.

SKILL DESIGNATORS

MOS 4065 PROGRAMMER, ALC MGySgt thru Cpl

Have successfully completed courses in ALC programming (Marine Corps or Manufacturer conducted) or have 6 months experience in ALC programming.

MOS 4066 PROGRAMMER, EDL MGySgt thru LCpl

1. Have successfully completed the ADPE-FMF Programmer course or have 6 months experience in EDL programming.

2. This MOS will be assigned only as an additional MOS.

IV. RELATED DOT CLASSIFICATION/DOT CODE

RELATED MILITARY SKIL

Programmer, Detail (Clerical)	219.367-026	4069 Systems Programm
Systems Analyst, Electronic		
Data Processing	012.167-066	

MOS 4069 SYSTEMS PROGRAMMER MGySgt thru Sgt

I. SUMMARY

The systems programmer performs technical analysis and programming required to effect systems generation; analyzes and evaluates system releases and versions for effect on application programs and effects operating system generation according to installation needs.

II. REQUIREMENTS/PREREQUISITES

1. Be a qualified MOS 4063 or MOS 4065 and have completed a course of instruction in the applicable computer system operating system (OS) and have at least two years experience in programming the computer.
2. This MOS will be assigned and voided only by the authority of the CMC (Code MM).

III. DUTIES AND TASKS

MGySgt thru Sgt

1. Performs technical analysis and programming required to effect and maintain Multi-Virtual Storage (MVS) Systems Generation.
2. Makes MVS systems generation checklist.
3. Backs-up and restores disk packs.
4. Initializes/analyzes disk packs.
5. Allocates systems data sets.
6. Codes and assembles Stage I MACROS.
7. Evaluates and applies corrective action to Stage II Job Stream.
8. Codes JES-2 parameters.
9. Updates systems libraries.
10. Performs initial programs load (IPL).
11. Uses System Modification Programs (SMP-4) to receive, apply, store, reject and accept system modifications.
12. Installs/maintains proprietary software products.
13. Performs Data Base Generation functions, to include:
 - a. Creating user data base.
 - b. Maintaining user data base.
14. Installs JES-2 exit routines.
15. Updates SYS.1 PARLIB.
16. Codes SAS statements.
17. Analyzes an application dump.
18. Analyzes JES-2 failures.
19. Diagnoses software failures.
20. Identifies critical input/output paths.
21. Adjusts SMR parameter values.
22. Resolves bottlenecks not eliminated at the system level.

MGySgt thru SSgt

23. Supervises personnel performance of systems programming duties.

24. Trains or assists in training system programmer personnel in the intricacies of the MVS operating system for the computer in use.

25. Tunes the MVS operating system.

26. Reviews automated data processing equipment daily utilization log.

MGySgt thru GySgt

27. Manages teams working on specific system programming tasks; coordinates team efforts.

28. Utilizes data processing administrative procedures.

29. Prepares automated data processing management report.

MGySgt and MSgt

30. Assists systems engineers and other technical experts when special software problems are encountered.

31. Develops the programming required by new systems.

MGySgt

32. Develops procedural plans.

33. Prepares cost report estimates.

34. Assists in the preparation of feasibility studies and application plans.

IV. RELATED DOT CLASSIFICATION/DOT CODES RELATED MILITARY SKILL

Systems Analysis, Electronic Data
Processing 012.167-066
Programmer Detail (Clerical)
 219.367-026

4063/4065 Programmer

REPRODUCED AT GOVERNMENT EXPENSE

4034

GROUP SUMMARY REP BY STAGE/GRADE

OF400282 PAGE 1

OF400283

DUTY SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK.
OF40 GROUP SUMMARY REPORT FOR STAGE 16 BY GRADE

THE FOLLOWING GROUPS ARE INCLUDED IN THIS REPORT:

- MEMBERS= 62.
- MEMBERS= 41.
- MEMBERS= 56.
- MEMBERS= 2.
- MEMBERS= 1.

- S16E1-3 DESCRIPTION FOR OF40 STAGE 16 RANKS E1-3
- STG16E4 DESCRIPTION FOR OF40 STAGE 16 RANK=E4
- STG16E5 DESCRIPTION FOR OF40 STAGE 16 RANK=E5
- STG16E6 DESCRIPTION FOR OF40 STAGE 16 RANK=E6
- STG16E9 DESCRIPTION FOR OF40 STAGE 16 RANK=E9

DTY/ TASK	S16E1-3	STG16E4	STG16E5	STG16E6	STG16E9
A	86.31	84.85	83.86	62.26	57.92
B	6.39	5.25	6.40	11.73	7.90
C	5.09	5.18	3.90	8.06	6.03
D	0.57	0.94	0.96	2.37	4.52
E	0.46	1.25	0.79	1.90	4.15
F	0.13	0.22	0.18	2.21	9.80
G	0.95	2.20	3.80	11.38	9.42

TASK SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK.
OF40 GROUP SUMMARY REPORT FOR STAGE 16 BY GRADE

THE FOLLOWING GRADERS ARE INCLUDED IN THIS REPORT:

STG16E1-3 DESCRIPTION FOR OF40 STAGE 16 RANKS E1-3
STG16E4 DESCRIPTION FOR OF40 STAGE 16 RANK=E4
STG16E5 DESCRIPTION FOR OF40 STAGE 16 RANK=E5
STG16E6 DESCRIPTION FOR OF40 STAGE 16 RANK=E6
STG16E9 DESCRIPTION FOR OF40 STAGE 16 RANK=E9MEMBERS=
MEMBERS=
MEMBERS=
MEMBERS=
MEMBERS=

DTY/ TASK	STG16E1-3	STG16E4	STG16E5	STG16E6	STG16E9
A 1	2.82	2.93	3.02	4.15	0.38
A 2	2.65	2.89	2.84	4.15	0.38
A 3	3.42	3.30	2.71	2.77	0.38
A 4	2.30	1.34	1.63	2.77	0.38
A 5	2.81	2.54	2.66	3.24	0.38
A 6	3.27	3.18	2.77	2.77	0.38
A 7	0.44	0.93	0.82	0.59	0.38
A 8	0.45	0.67	0.75	1.07	0.38
A 9	0.37	0.92	0.72	0.59	0.38
A 10	1.33	1.12	1.18	0.16	0.38
A 11	0.93	0.79	0.86	0.16	0.38
A 12	1.17	1.00	1.26	0.16	0.38
A 13	1.26	0.98	1.23	0.16	0.38
A 14	1.21	0.93	1.05	0.63	0.38
A 15	0.87	0.68	0.81	0.63	0.38
A 16	1.13	0.90	1.09	0.63	0.38
A 17	1.11	0.91	1.03	0.63	0.38
A 18	1.96	1.51	1.73	0.16	0.38
A 19	1.69	1.43	1.57	0.16	0.38
A 20	1.86	1.53	1.89	0.63	0.38
A 21	1.61	1.58	1.30	0.16	0.38
A 22	1.95	1.52	1.60	0.16	0.38
A 23	0.99	0.91	0.68	0.0	0.38
A 24	0.87	0.51	0.37	0.0	0.38
A 25	0.12	0.29	0.13	0.16	0.38
A 26	1.22	0.98	0.62	1.03	0.38
A 27	1.28	0.69	0.56	0.16	0.38
A 28	1.05	0.52	0.44	0.16	0.38
A 29	1.16	0.66	0.75	0.43	0.38
A 30	1.26	0.96	0.63	0.59	0.38
A 31	1.62	1.16	0.82	0.59	0.38
A 32	0.34	0.34	0.11	0.16	0.38
A 33	0.87	0.47	0.32	0.0	0.38
A 34	1.10	1.79	1.86	3.20	0.38
A 35	0.89	1.53	1.04	1.46	0.38

GROUP SUMMARY REP BY STAGE/GRADE

DTY/ TASK	STG10E1-3	STG10E4	STG10E5	STG10E6	STG10E9
A 36	0.96	1.36	1.13	1.46	0.38
A 37	0.86	1.22	1.10	2.37	0.38
A 38	1.22	1.23	0.78	0.16	0.38
A 39	1.83	1.71	0.84	0.63	0.38
A 40	1.22	0.89	0.70	0.63	0.38
A 41	0.17	0.52	0.34	0.0	0.38
A 42	0.33	0.51	0.48	0.0	0.38
A 43	0.33	0.49	0.49	0.0	0.38
A 44	0.38	0.69	0.47	0.0	0.38
A 45	0.30	0.62	0.50	0.0	0.38
A 46	0.31	0.61	0.53	0.0	0.38
A 47	0.41	0.65	0.56	0.0	0.38
A 48	0.39	0.64	0.55	0.0	0.38
A 49	0.41	0.55	0.39	0.0	0.38
A 50	0.38	0.55	0.35	0.0	0.38
A 51	0.34	0.49	0.35	0.0	0.38
A 52	0.31	0.45	0.40	0.0	0.38
A 53	0.30	0.52	0.53	0.0	0.38
A 54	0.31	0.61	0.53	0.0	0.38
A 55	0.31	0.60	0.53	0.0	0.38
A 56	0.33	0.62	0.54	0.0	0.38
A 57	0.31	0.58	0.52	0.0	0.38
A 58	0.30	0.61	0.54	0.0	0.38
A 59	0.22	0.57	0.54	0.0	0.38
A 60	0.22	0.51	0.54	0.0	0.38
A 61	0.22	0.56	0.54	0.0	0.38
A 62	0.22	0.50	0.50	0.0	0.38
A 63	0.22	0.54	0.54	0.0	0.38
A 64	0.32	0.15	0.33	0.16	0.38
A 65	0.33	0.15	0.33	0.16	0.38
A 66	0.30	0.07	0.33	0.16	0.38
A 67	0.33	0.15	0.32	0.16	0.38
A 68	0.26	0.15	0.32	0.16	0.38
A 69	0.33	0.15	0.33	0.16	0.38
A 70	0.31	0.15	0.33	0.0	0.38
A 71	0.89	0.51	0.21	0.0	0.38
A 72	0.97	0.53	0.22	0.0	0.38
A 73	0.97	0.51	0.22	0.0	0.38
A 74	0.95	0.54	0.22	0.0	0.38
A 75	0.97	0.53	0.22	0.0	0.38
A 76	1.02	0.53	0.22	0.0	0.38
A 77	0.61	0.38	0.37	0.0	0.38
A 78	0.60	0.39	0.35	0.0	0.38

GROUP SUMMARY REP BY STAGE/GRADE

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DTY/ TASK	S16E1-3	STG16E4	STG16E5	STG16E6	STG16E9
A 79	0.54	0.40	0.33	0.0	0.38
A 80	0.54	0.40	0.40	0.0	0.38
A 81	0.54	0.40	0.36	0.0	0.38
A 82	0.06	0.09	0.12	0.0	0.38
A 83	0.06	0.09	0.13	0.0	0.38
A 84	0.03	0.09	0.13	0.0	0.38
A 85	0.03	0.09	0.14	0.0	0.38
A 86	0.03	0.09	0.12	0.0	0.38
A 87	0.05	0.0	0.05	0.0	0.38
A 88	0.07	0.06	0.12	0.0	0.38
A 89	0.48	0.39	0.23	0.0	0.38
A 90	0.45	0.35	0.25	0.0	0.38
A 91	0.52	0.38	0.25	0.0	0.38
A 92	0.56	0.37	0.27	0.0	0.38
A 93	0.58	0.38	0.25	0.0	0.38
A 94	0.12	0.06	0.19	0.0	0.38
A 95	0.0	0.0	0.01	0.0	0.38
A 96	0.0	0.0	0.01	0.0	0.38
A 97	0.0	0.0	0.01	0.0	0.38
A 98	0.0	0.0	0.02	0.0	0.38
A 99	0.0	0.0	0.02	0.0	0.38
A100	0.0	0.0	0.01	0.0	0.38
A101	0.0	0.0	0.03	0.0	0.38
A102	0.19	0.19	0.14	0.0	0.38
A103	0.34	0.46	0.24	0.16	0.38
A104	0.33	0.37	0.27	0.16	0.38
A105	0.39	0.49	0.33	0.16	0.38
A106	0.37	0.49	0.35	0.16	0.38
A107	0.36	0.47	0.28	0.16	0.38
A108	0.0	0.0	0.01	0.0	0.38
A109	0.0	0.0	0.01	0.0	0.38
A110	0.0	0.0	0.01	0.0	0.38
A111	0.0	0.0	0.01	0.0	0.38
A112	0.0	0.0	0.01	0.0	0.38
A113	0.0	0.0	0.0	0.0	0.38
A114	0.0	0.0	0.01	0.0	0.38
A115	0.0	0.02	0.03	0.0	0.38
A116	0.0	0.02	0.03	0.0	0.38
A117	0.0	0.02	0.03	0.0	0.38
A118	0.0	0.02	0.03	0.0	0.38
A119	0.0	0.02	0.07	0.0	0.38
A120	0.0	0.02	0.03	0.0	0.38

GROUP SUMMARY REP BY STAGE/GRADE

DTY/ TASK	STG10E1-3	STG10E4	STG10E5	STG10E6	STG10E9
A121	0.34	0.22	0.49	0.0	0.38
A122	0.37	0.34	0.54	0.0	0.38
A123	0.31	0.21	0.45	0.0	0.38
A124	0.37	0.34	0.54	0.0	0.38
A125	0.37	0.34	0.56	0.0	0.38
A126	0.37	0.34	0.49	0.0	0.38
A127	0.01	0.13	0.20	0.0	0.38
A128	1.14	1.29	1.61	2.37	0.38
A129	0.07	0.35	0.63	0.0	0.38
A130	0.30	0.33	0.41	1.07	1.51
A131	0.51	0.88	0.88	1.07	1.51
A132	0.04	0.09	0.11	0.0	0.38
A133	0.01	0.03	0.11	0.0	0.38
A134	0.34	0.92	1.03	2.37	0.38
A135	1.21	1.52	2.08	4.15	0.38
A136	0.23	0.50	1.04	1.11	2.26
A137	0.73	0.46	1.11	3.71	1.51
A138	0.73	0.55	0.88	0.63	0.38
A139	0.04	0.07	0.24	0.63	0.38
A140	0.60	1.03	2.09	3.71	0.38
B 1	0.21	0.22	0.24	0.63	0.38
B 2	0.79	0.71	0.27	0.63	0.38
B 3	1.22	1.10	0.77	0.16	0.38
B 4	0.42	0.29	0.39	0.63	0.38
B 5	0.07	0.01	0.01	0.63	0.38
B 6	0.30	0.06	0.29	0.63	0.38
B 7	0.0	0.02	0.07	0.0	0.38
B 8	0.0	0.03	0.03	0.0	0.38
B 9	0.68	0.65	1.06	4.15	0.38
B 10	0.40	0.41	0.83	1.11	0.38
B 11	0.25	0.0	0.26	0.63	0.38
B 12	0.31	0.31	0.85	0.63	0.38
B 13	0.37	0.18	0.18	0.0	0.38
B 14	0.94	0.45	0.42	0.0	0.38
B 15	0.10	0.17	0.17	0.0	0.38
B 16	0.0	0.0	0.03	0.0	0.38
B 17	0.0	0.02	0.0	0.0	0.38
B 18	0.0	0.0	0.03	0.0	0.38
B 19	0.09	0.21	0.14	0.63	0.38
B 20	0.07	0.24	0.09	0.63	0.38
B 21	0.17	0.18	0.26	0.63	0.38
C 1	0.13	0.0	0.08	0.63	0.38
C 2	0.0	0.0	0.0	0.0	0.0

GROUP SUMMARY REP BY STAGE/GRADE

DTY/ TASK	STG16E1-3	STG16E4	STG16E5	STG16E6	STG16E9
C 3	0.01	0.0	0.0	0.0	0.0
C 4	0.01	0.01	0.02	0.0	0.0
C 5	0.01	0.04	0.02	0.0	0.0
C 6	0.04	0.02	0.05	0.0	0.0
C 7	0.04	0.0	0.11	0.0	0.0
C 8	0.09	0.0	0.0	0.0	0.0
C 9	0.01	0.0	0.0	0.0	0.0
C 10	0.01	0.0	0.0	0.0	0.0
C 11	0.01	0.0	0.0	0.0	0.0
C 12	0.01	0.0	0.0	0.0	0.0
C 13	0.01	0.0	0.04	0.0	0.0
C 14	0.01	0.0	0.0	0.0	0.0
C 15	0.0	0.0	0.03	0.0	0.0
C 16	0.00	0.0	0.0	0.0	0.0
C 17	0.00	0.0	0.0	0.0	0.0
C 18	0.04	0.04	0.0	0.0	0.0
C 19	0.07	0.02	0.0	0.0	0.0
C 20	0.01	0.02	0.03	0.0	0.0
C 21	0.01	0.02	0.04	0.0	0.0
C 22	0.0	0.0	0.0	0.0	0.0
C 23	0.0	0.0	0.0	0.0	0.0
C 24	0.0	0.0	0.0	0.0	0.0
C 25	0.0	0.01	0.0	0.0	0.0
C 26	0.0	0.02	0.0	0.0	0.0
C 27	0.0	0.02	0.0	0.0	0.0
C 28	0.02	0.0	0.0	0.0	0.0
C 29	0.35	0.33	0.08	0.0	0.0
C 30	0.19	0.35	0.06	0.0	0.0
C 31	0.00	0.03	0.0	0.0	0.0
C 32	0.11	0.41	0.01	0.0	0.0
C 33	0.01	0.03	0.0	0.0	0.0
C 34	0.07	0.01	0.00	0.0	0.0
C 35	0.09	0.07	0.00	0.0	0.0
C 36	0.00	0.05	0.05	0.0	0.0
C 37	0.02	0.03	0.08	0.0	0.0
C 38	0.0	0.0	0.0	0.0	0.0
C 39	0.11	0.06	0.06	0.0	0.0
C 40	0.0	0.04	0.03	0.0	0.0
C 41	0.19	0.14	0.19	0.0	0.0
C 42	0.0	0.04	0.05	0.0	0.0
C 43	0.19	0.14	0.19	0.0	0.0
C 44	0.07	0.04	0.17	0.0	0.0

GROUP SUMMARY REP BY STAGE/GRADE

DTY/ TASK	STG16E1-3	STG16E4	STG16E5	STG16E6	STG16E9
C 45	0.00	0.0	0.0	0.0	0.0
C 46	0.24	0.18	0.15	0.0	0.0
C 47	1.03	1.23	1.03	2.84	1.88
C 48	0.15	0.14	0.05	0.0	0.0
C 49	0.03	0.05	0.02	0.0	0.0
C 50	0.0	0.0	0.0	0.0	0.0
C 51	0.00	0.0	0.0	0.0	0.0
C 52	0.00	0.02	0.01	0.63	0.0
C 53	0.0	0.01	0.0	0.0	0.0
C 54	0.0	0.0	0.0	0.0	0.0
C 55	0.0	0.0	0.0	0.0	0.0
C 56	0.0	0.0	0.0	0.0	0.0
C 57	0.0	0.01	0.0	0.0	0.0
C 58	0.0	0.0	0.0	0.63	0.0
C 59	0.0	0.0	0.0	0.0	0.0
C 60	0.06	0.05	0.03	0.79	0.0
C 61	0.14	0.12	0.13	0.63	0.0
C 62	0.26	0.12	0.05	0.0	0.0
C 63	0.05	0.0	0.02	0.0	0.0
C 64	0.26	0.28	0.12	0.0	0.0
C 65	0.0	0.0	0.01	0.0	0.0
C 66	0.0	0.0	0.01	0.0	0.0
C 67	0.04	0.0	0.01	0.0	0.0
C 68	0.04	0.0	0.01	0.0	0.0
C 69	0.01	0.04	0.01	0.0	0.0
C 70	0.06	0.04	0.0	0.0	0.0
C 71	0.06	0.0	0.10	0.0	0.0
C 72	0.01	0.0	0.0	0.0	0.0
C 73	0.0	0.03	0.0	0.0	0.0
C 74	0.0	0.03	0.0	0.0	0.0
C 75	0.64	0.68	0.63	0.95	1.88
C 76	0.06	0.17	0.05	0.95	1.88
C 77	0.0	0.0	0.0	0.0	0.0
C 78	0.0	0.0	0.06	0.0	0.0
D 1	0.0	0.0	0.0	0.0	0.0
D 2	0.0	0.0	0.0	0.0	0.0
D 3	0.0	0.0	0.02	0.0	0.0
D 4	0.0	0.0	0.0	0.0	0.0
D 5	0.0	0.0	0.0	0.0	0.0
D 6	0.04	0.0	0.0	0.0	0.0
D 7	0.0	0.0	0.0	0.0	0.0
D 8	0.0	0.0	0.07	0.0	0.0
D 9	0.0	0.0	0.0	0.0	0.0

GROUP SUMMARY REP BY STAGE/GRADE

QTY/ TASK	S16E1-3	STG16E4	STG16E5	STG16E6	STG16E9
D 10	0.0	0.0	0.02	0.0	0.0
D 11	0.05	0.11	0.28	0.0	0.0
D 12	0.02	0.11	0.17	0.63	0.0
D 13	0.0	0.0	0.0	0.0	0.0
D 14	0.0	0.0	0.0	0.0	0.0
D 15	0.04	0.0	0.0	0.0	0.0
D 16	0.0	0.01	0.0	0.0	0.0
D 17	0.0	0.0	0.0	0.0	0.0
D 18	0.0	0.0	0.0	0.0	0.0
D 19	0.0	0.0	0.0	0.0	0.0
D 20	0.0	0.0	0.0	0.0	0.0
D 21	0.0	0.0	0.0	0.63	0.0
D 22	0.0	0.0	0.0	0.0	0.0
D 23	0.04	0.0	0.12	0.0	0.0
D 24	0.0	0.10	0.08	0.0	1.51
D 25	0.0	0.14	0.02	0.0	0.0
D 26	0.21	0.43	0.14	1.11	0.0
D 27	0.04	0.0	0.01	0.0	0.0
D 28	0.04	0.04	0.0	0.0	0.0
D 29	0.04	0.0	0.0	0.0	0.0
D 30	0.04	0.0	0.0	0.0	1.88
D 31	0.04	0.0	0.03	0.0	1.13
E 1	0.0	0.03	0.04	0.63	0.0
E 2	0.04	0.0	0.01	0.0	1.88
E 3	0.04	0.0	0.0	0.0	0.0
E 4	0.04	0.0	0.0	0.0	0.0
E 5	0.04	0.0	0.03	0.0	0.0
E 6	0.0	0.0	0.01	0.0	0.0
E 7	0.04	0.0	0.0	0.0	0.0
E 8	0.04	0.0	0.01	0.0	0.0
E 9	0.04	0.05	0.01	0.63	0.0
E 10	0.0	0.05	0.01	0.0	0.0
E 11	0.0	0.03	0.0	0.0	0.0
E 12	0.02	0.07	0.05	0.0	0.0
E 13	0.0	0.0	0.0	0.0	0.0
E 14	0.02	0.08	0.02	0.0	0.0
E 15	0.0	0.0	0.0	0.0	0.0
E 16	0.0	0.01	0.0	0.0	0.0
E 17	0.0	0.05	0.02	0.0	0.0
E 18	0.0	0.04	0.0	0.0	0.0
E 19	0.0	0.0	0.01	0.0	0.0
E 20	0.01	0.12	0.09	0.0	0.0

GROUP SUMMARY REP BY STAGE/GRADE

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DTY/ TASK	S10E1-3	STQ10E4	STQ10E5	STQ10E6	STQ10E9
E 21	0.0	0.0	0.02	0.0	0.0
E 22	0.0	0.03	0.02	0.0	0.0
E 23	0.02	0.02	0.03	0.0	1.13
E 24	0.0	0.03	0.03	0.0	1.13
E 25	0.0	0.04	0.03	0.0	0.0
E 26	0.0	0.16	0.13	0.0	0.0
E 27	0.13	0.45	0.22	0.63	0.0
F 1	0.00	0.03	0.03	0.0	1.88
F 2	0.02	0.04	0.03	0.0	1.51
F 3	0.02	0.03	0.04	0.0	1.51
F 4	0.0	0.02	0.03	0.0	1.51
F 5	0.0	0.0	0.0	0.0	0.0
F 6	0.03	0.03	0.02	0.0	0.0
F 7	0.0	0.0	0.02	0.0	0.0
F 8	0.01	0.02	0.0	1.11	1.13
F 9	0.01	0.02	0.0	1.11	1.13
F 10	0.0	0.0	0.0	0.0	0.0
F 11	0.02	0.03	0.02	0.0	0.0
F 12	0.02	0.0	0.0	0.0	0.0
F 13	0.0	0.0	0.0	0.0	1.13
G 1	0.02	0.0	0.10	0.63	0.0
G 2	0.0	0.0	0.0	0.0	0.0
G 3	0.0	0.0	0.0	0.0	0.0
G 4	0.0	0.0	0.0	0.0	0.0
G 5	0.0	0.0	0.0	0.0	0.0
G 6	0.0	0.0	0.01	0.0	0.0
G 7	0.0	0.0	0.0	0.0	0.0
G 8	0.0	0.12	0.19	0.0	1.51
G 9	0.0	0.35	0.71	1.11	1.51
G 10	0.0	0.0	0.02	0.0	0.0
G 11	0.0	0.14	0.05	0.0	0.0
G 12	0.0	0.02	0.04	1.11	0.0
G 13	0.0	0.0	0.03	0.0	1.13
G 14	0.0	0.0	0.0	0.0	0.0
G 15	0.0	0.02	0.05	0.0	0.0
G 16	0.0	0.14	0.03	1.11	1.51
G 17	0.0	0.0	0.0	0.0	0.0
G 18	0.0	0.05	0.03	0.0	0.75
G 19	0.38	0.51	0.56	3.71	0.75
G 20	0.55	0.85	1.93	3.71	2.26
G 21	0.0	0.0	0.05	0.0	0.0

DUTY SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK. OF 40 GROUP SUMMARY REPORT FOR STAGE 16 BY GRADE

THE FOLLOWING GROUPS ARE INCLUDED IN THIS REPORT:

STAGE	DESCRIPTION	RANK	MEMBERS
16	STG16E1-3	STAGE 16	MEMBERS= 62.
16	STG16E4	STAGE 16	MEMBERS= 41.
16	STG16E5	STAGE 16	MEMBERS= 56.
16	STG16E6	STAGE 16	MEMBERS= 2.
16	STG16E8	STAGE 16	MEMBERS= 1.

DTY/ TASK	DUTY/TASK TITLE	-	E	E	E	E
		3	4	5	6	9
A	COMPUTER ROOM OPERATIONS	86	85	84	62	58
B	PRODUCTION CONTROL AND ANALYSIS ACTIVITIES	6	5	6	12	8
C	APPLICATIONS PROGRAMMER ACTIVITIES	5	5	4	8	6
D	SYSTEM PROGRAMMER (OPERATING SYSTEM) ACTIVITIES	1	1	1	2	5
E	SYSTEM PROGRAMMER (TELEPROCESSING) ACTIVITIES	0	1	1	2	4
F	ADPE-FMF OPERATIONS	0	0	0	2	10
G	SUPERVISORS ACTIVITIES	1	2	4	11	9

TASK SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK.
OF40 GROUP SUMMARY REPORT FOR STAGE 16 BY GRADE

THE FOLLOWING GROUPS ARE INCLUDED IN THIS REPORT:

MEMBERS= 62.
MEMBERS= 41.
MEMBERS= 56.
MEMBERS= 2.
MEMBERS= 1.

STG161-3 DESCRIPTION FOR OF40 STAGE 16 RANKS E1-3
STG16E4 DESCRIPTION FOR OF40 STAGE 16 RANK=E4
STG16E5 DESCRIPTION FOR OF40 STAGE 16 RANK=E5
STG16E6 DESCRIPTION FOR OF40 STAGE 16 RANK=E6
STG16E9 DESCRIPTION FOR OF40 STAGE 16 RANK=E9

DTY/ TASK	DUTY/TASK TITLE	S	S	T	T	G	G	E	E
A 1	OPERATE CONSOLE KEYBOARD	3	3	3	3	4	0	0	0
A 2	RESPOND OR REACT TO COMPUTER SYSTEM COMMAND, QUERY OR MESSAGE ON CONSOLE	3	3	3	3	4	0	0	0
A 3	3MOUNT TAPES ON TAPE DRIVE	3	3	3	3	3	0	0	0
A 4	4SET TAPE DRIVE CONTROLS	2	1	2	3	0	0	0	0
A 5	5MONITOR TAPE DRIVE OPERATION	3	3	3	3	3	0	0	0
A 6	6DISMOUNT TAPES FROM TAPE DRIVE	3	3	3	3	3	0	0	0
A 7	7MOUNT DISK PACK ON DISK DRIVE	0	1	1	1	1	0	0	0
A 8	8SET DISK DRIVE CONTROLS	0	1	1	1	1	0	0	0
A 9	9DISMOUNT DISK PACK FROM DISK DRIVE	0	1	1	1	1	0	0	0
A 10	10LOAD CARDS INTO CARD READER PUNCH	1	1	1	1	1	0	0	0
A 11	11SET CARD READER PUNCH CONTROLS	1	1	1	1	1	0	0	0
A 12	12MONITOR READER PUNCH OPERATION	1	1	1	1	1	0	0	0
A 13	13UNLOAD CARDS FROM CARD READER PUNCH	1	1	1	1	1	0	0	0
A 14	14LOAD CARDS INTO CARD READER	1	1	1	1	1	0	0	0
A 15	15SET CARD READER CONTROLS	1	1	1	1	1	0	0	0
A 16	16MONITOR CARD READER OPERATION	1	1	1	1	1	0	0	0
A 17	17UNLOAD CARDS FROM CARD READER	1	1	1	1	1	0	0	0
A 18	18MOUNT PAPER ON 1403 OR 3211 PRINTER	2	2	2	2	0	0	0	0
A 19	19SET 1403 OR 3211 PRINTER CONTROLS	2	1	2	2	0	0	0	0
A 20	20MONITOR 1403 OR 3211 PRINTER OPERATION	2	2	2	2	1	0	0	0
A 21	BREAK DOWN OUTPUT FROM 1403 OR 3211 PRINTER	2	2	1	0	0	0	0	0
A 22	DISMOUNT PAPER FROM 1403 OR 3211 PRINTER	2	2	2	2	0	0	0	0
A 23	PROCESS INCOMING TAPES	1	1	1	0	0	0	0	0
A 24	PULL TAPE FOR MAILING	1	1	0	0	0	0	0	0
A 25	LABEL DISK PACK	0	0	0	0	0	0	0	0
A 26	LABEL TAPE	1	1	1	1	1	0	0	0
A 27	CLEAN TAPE	1	1	1	1	0	0	0	0
A 28	CERTIFY TAPE	1	1	0	0	0	0	0	0
A 29	INITIALIZE TAPE	1	1	1	1	0	0	0	0
A 30	STORE TAPE	1	1	1	1	1	0	0	0

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SUMMARY REP BY BMOS/GRADE

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SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK.
OF40 GROUP SUMMARY REPORT FOR BMOS 4038 WITH GRADE E4-E9

THE FOLLOWING GROUPS ARE INCLUDED IN THIS REPORT:

- MEMBERS= 7.
- MEMBERS= 31.
- MEMBERS= 26.
- MEMBERS= 16.
- MEMBERS= 2.
- MEMBERS= 4.

- 4038-E4 DESCRIPTION OF40 BMOS 4038 GRADE E4
- 4038-E5 DESCRIPTION OF40 BMOS 4038 GRADE E5
- 4038-E6 DESCRIPTION OF40 BMOS 4038 GRADE E6
- 4038-E7 DESCRIPTION OF40 BMOS 4038 GRADE E7
- 4038-E8 DESCRIPTION OF40 BMOS 4038 GRADE E8
- 4038-E9 DESCRIPTION OF40 BMOS 4038 GRADE E9

DTY/ TASK	4038-E4	4038-E5	4038-E6	4038-E7	4038-E8	4038-E9
A	37.79	41.59	34.72	21.39	1.20	17.78
B	28.08	28.30	29.29	24.65	18.32	9.21
C	30.74	25.78	29.76	44.11	32.48	26.62
D	1.15	0.65	1.27	2.86	0.0	9.94
E	0.10	0.19	0.36	2.18	34.93	9.82
F	0.0	0.16	0.04	0.14	2.41	6.96
G	2.06	3.18	4.44	4.56	10.63	19.56

TASK SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK.
OF40 GROUP SUMMARY REPORT FOR BMOS 4038 WITH GRADE E4-9

THE FOLLOWING GROUPS ARE INCLUDED IN THIS REPORT:

4038-E4 DESCRIPTION OF40 BMOS 4038 GRADE E4
 4038-E5 DESCRIPTION OF40 BMOS 4038 GRADE E5
 4038-E6 DESCRIPTION OF40 BMOS 4038 GRADE E6
 4038-E7 DESCRIPTION OF40 BMOS 4038 GRADE E7
 4038-E8 DESCRIPTION OF40 BMOS 4038 GRADE E8
 4038-E9 DESCRIPTION OF40 BMOS 4038 GRADE E9

MEMBERS= 7.
 MEMBERS= 31.
 MEMBERS= 26.
 MEMBERS= 16.
 MEMBERS= 2.
 MEMBERS= 4.

DTY/	4038-E4	4038-E5	4038-E6	4038-E7	4038-E8	4038-E9
A 1	1.72	2.41	1.98	2.31	0.0	0.37
A 2	1.13	1.46	1.50	1.14	0.0	0.30
A 3	0.10	0.41	0.26	0.05	0.0	0.09
A 4	0.16	0.18	0.11	0.02	0.0	0.09
A 5	0.03	0.47	0.57	0.31	0.0	0.09
A 6	0.0	0.45	0.21	0.0	0.0	0.09
A 7	0.0	0.09	0.03	0.0	0.0	0.09
A 8	0.0	0.19	0.04	0.0	0.0	0.09
A 9	0.0	0.06	0.03	0.0	0.0	0.09
A 10	1.14	0.95	1.25	0.52	0.0	0.09
A 11	0.52	0.47	0.71	0.22	0.0	0.09
A 12	0.52	0.68	0.79	0.20	0.0	0.09
A 13	0.71	0.56	1.12	0.35	0.0	0.09
A 14	1.69	1.44	1.30	0.65	0.0	0.09
A 15	1.20	0.83	0.87	0.35	0.0	0.09
A 16	1.63	1.25	1.19	0.53	0.0	0.09
A 17	1.82	1.48	1.26	0.60	0.0	0.09
A 18	0.33	0.92	0.77	0.21	0.0	0.09
A 19	0.33	0.89	0.59	0.36	0.0	0.09
A 20	0.33	0.91	0.89	0.35	0.0	0.16
A 21	0.70	1.18	0.91	0.32	0.0	0.09
A 22	0.58	1.03	0.95	0.29	0.0	0.09
A 23	0.63	0.87	0.89	0.75	0.0	0.23
A 24	0.38	0.35	0.21	0.07	0.0	0.09
A 25	0.03	0.04	0.01	0.0	0.0	0.09
A 26	0.26	0.37	0.18	0.0	0.0	0.09
A 27	0.0	0.13	0.02	0.0	0.0	0.09
A 28	0.0	0.17	0.02	0.0	0.0	0.09
A 29	0.0	0.16	0.02	0.0	0.0	0.09
A 30	0.0	0.09	0.08	0.0	0.0	0.09
A 31	0.0	0.26	0.04	0.0	0.0	0.09
A 32	0.0	0.10	0.03	0.0	0.0	0.09
A 33	0.03	0.08	0.02	0.0	0.0	0.09
A 34	0.03	0.35	0.52	1.88	0.0	0.09
A 35	0.0	0.29	0.05	0.0	0.0	0.09

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DTY/ TASK	4038-E4	4038-E5	4038-E6	4038-E7	4038-E8	4038-E9
A 36	0.0	0.31	0.05	0.0	0.0	0.09
A 37	0.0	0.43	0.17	0.0	0.0	0.09
A 38	0.10	0.36	0.03	0.0	0.0	0.09
A 39	0.27	0.31	0.0	0.0	0.0	0.09
A 40	0.10	0.29	0.02	0.0	0.0	0.09
A 41	0.0	0.13	0.02	0.0	0.0	0.09
A 42	0.0	0.09	0.02	0.0	0.0	0.09
A 43	0.0	0.19	0.02	0.0	0.0	0.09
A 44	0.0	0.16	0.07	0.0	0.0	0.09
A 45	0.0	0.13	0.07	0.0	0.0	0.09
A 46	0.0	0.16	0.07	0.0	0.0	0.09
A 47	0.0	0.15	0.07	0.0	0.0	0.09
A 48	0.0	0.12	0.07	0.0	0.0	0.09
A 49	0.0	0.17	0.07	0.0	0.0	0.09
A 50	0.0	0.14	0.07	0.0	0.0	0.09
A 51	0.0	0.09	0.02	0.0	0.0	0.09
A 52	0.0	0.09	0.02	0.89	0.0	0.09
A 53	0.0	0.10	0.02	1.34	0.0	0.09
A 54	0.0	0.10	0.02	0.0	0.0	0.09
A 55	0.0	0.10	0.02	0.0	0.0	0.09
A 56	0.0	0.10	0.02	0.0	0.0	0.09
A 57	0.0	0.10	0.02	0.0	0.0	0.09
A 58	0.0	0.10	0.02	0.0	0.0	0.09
A 59	0.0	0.10	0.02	0.0	0.0	0.09
A 60	0.0	0.10	0.02	0.0	0.0	0.09
A 61	0.0	0.10	0.02	0.0	0.0	0.09
A 62	0.0	0.10	0.02	0.0	0.0	0.09
A 63	0.0	0.10	0.02	0.0	0.0	0.09
A 64	0.0	0.03	0.02	0.0	0.0	0.09
A 65	0.0	0.03	0.02	0.0	0.0	0.09
A 66	0.0	0.03	0.02	0.0	0.0	0.37
A 67	0.0	0.03	0.02	0.0	0.0	0.37
A 68	0.0	0.08	0.12	0.0	0.0	0.09
A 69	0.0	0.04	0.02	0.0	0.0	0.09
A 70	0.0	0.04	0.02	0.0	0.0	0.09
A 71	0.73	0.30	0.12	0.06	0.0	0.09
A 72	0.84	0.30	0.15	0.06	0.0	0.09
A 73	0.87	0.30	0.15	0.06	0.0	0.09
A 74	0.84	0.30	0.25	0.06	0.0	0.09
A 75	0.84	0.30	0.13	0.06	0.0	0.09
A 76	0.84	0.30	0.13	0.06	0.0	0.09
A 77	0.0	0.26	0.11	0.02	0.0	0.09
A 78	0.0	0.26	0.11	0.02	0.0	0.09

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DTY/ TASK	4038-E4	4038-E5	4038-E6	4038-E7	4038-E8	4038-E9
A 79	0.0	0.20	0.11	0.02	0.0	0.09
A 80	0.0	0.20	0.23	0.02	0.0	0.09
A 81	0.0	0.26	0.13	0.0	0.0	0.09
A 82	0.39	0.07	0.02	0.0	0.0	0.09
A 83	0.39	0.07	0.02	0.0	0.0	0.09
A 84	0.39	0.07	0.02	0.0	0.0	0.09
A 85	0.39	0.07	0.13	0.0	0.0	0.09
A 86	0.39	0.06	0.05	0.0	0.0	0.09
A 87	0.0	0.03	0.0	0.03	0.0	0.09
A 88	0.10	0.03	0.0	0.0	0.0	0.09
A 89	0.65	0.15	0.07	0.03	0.0	0.09
A 90	0.65	0.15	0.09	0.03	0.0	0.09
A 91	0.65	0.15	0.09	0.0	0.0	0.09
A 92	0.65	0.15	0.17	0.05	0.0	0.09
A 93	0.65	0.15	0.07	0.03	0.0	0.09
A 94	0.0	0.04	0.0	0.0	0.0	0.09
A 95	0.0	0.0	0.0	0.0	0.0	0.09
A 96	0.0	0.0	0.0	0.0	0.0	0.09
A 97	0.0	0.0	0.0	0.0	0.0	0.09
A 98	0.0	0.0	0.0	0.0	0.0	0.09
A 99	0.0	0.0	0.0	0.0	0.0	0.09
A100	0.0	0.0	0.0	0.0	0.0	0.09
A101	0.0	0.0	0.0	0.0	0.0	0.09
A102	0.06	0.29	0.40	0.04	0.0	0.09
A103	1.34	1.04	1.23	0.34	0.0	0.09
A104	0.71	0.83	0.82	0.24	0.0	0.09
A105	1.67	1.14	1.34	0.54	0.0	0.09
A106	2.00	1.29	1.42	0.58	0.0	0.16
A107	1.80	1.08	1.27	0.47	0.0	0.09
A108	0.0	0.0	0.0	0.0	0.0	0.09
A109	0.0	0.0	0.0	0.0	0.0	0.09
A110	0.0	0.0	0.0	0.0	0.0	0.09
A111	0.0	0.0	0.0	0.0	0.0	0.09
A112	0.0	0.0	0.0	0.0	0.0	0.09
A113	0.0	0.0	0.0	0.0	0.0	0.09
A114	0.0	0.0	0.0	0.0	0.0	0.09
A115	0.0	0.04	0.0	0.0	0.0	0.09
A116	0.0	0.04	0.0	0.0	0.0	0.09
A117	0.0	0.04	0.0	0.0	0.0	0.09
A118	0.0	0.04	0.0	0.0	0.0	0.09
A119	0.0	0.04	0.0	0.0	0.0	0.09
A120	0.0	0.04	0.0	0.0	0.0	0.09

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DTY/ TASK	4038-E4	4038-E5	4038-E6	4038-E7	4038-E8	4038-E9
A121	0.0	0.14	0.03	0.05	0.0	0.09
A122	0.0	0.14	0.04	0.05	0.0	0.09
A123	0.0	0.14	0.03	0.05	0.0	0.09
A124	0.0	0.14	0.04	0.05	0.0	0.09
A125	0.0	0.14	0.11	0.12	0.0	0.09
A126	0.0	0.14	0.03	0.05	0.0	0.09
A127	0.0	0.02	0.05	0.45	0.0	0.09
A128	0.03	0.24	0.37	0.09	0.0	0.09
A129	0.0	0.09	0.08	0.0	0.0	0.09
A130	0.0	0.06	0.04	0.07	0.0	0.38
A131	0.03	0.25	0.29	0.02	0.0	0.38
A132	0.0	0.02	0.17	0.36	0.0	0.09
A133	0.0	0.07	0.0	0.0	0.0	0.09
A134	0.42	0.38	0.29	0.15	0.0	0.37
A135	0.65	0.40	0.37	0.0	0.0	0.09
A136	0.15	0.23	0.36	0.21	1.20	1.39
A137	0.0	0.72	1.03	1.56	0.0	0.79
A138	0.0	0.12	0.19	0.0	0.0	0.09
A139	0.86	0.55	0.60	0.31	0.0	0.09
A140	1.35	1.32	0.97	1.28	0.0	0.58
B 1	0.46	0.94	0.84	0.60	1.57	0.37
B 2	1.69	1.79	2.23	2.46	1.57	0.51
B 3	1.12	1.34	1.34	0.53	0.26	0.09
B 4	3.16	2.73	2.80	2.51	1.31	0.58
B 5	1.33	1.25	1.27	1.27	1.83	0.58
B 6	1.50	2.32	1.97	1.67	1.57	0.09
B 7	0.80	1.99	1.69	1.63	1.83	0.58
B 8	2.15	2.20	1.93	1.56	0.0	0.51
B 9	2.60	2.40	2.95	1.87	0.0	0.51
B 10	2.25	2.21	2.00	1.70	0.0	0.51
B 11	2.37	2.43	2.99	2.61	1.83	0.58
B 12	1.31	1.61	1.69	1.16	0.0	0.09
B 13	0.80	0.85	0.34	0.25	0.0	0.09
B 14	0.87	0.80	0.51	0.19	0.0	0.09
B 15	1.80	1.46	1.91	1.24	1.83	0.51
B 16	1.11	0.84	0.82	1.53	1.83	0.58
B 17	0.0	0.26	0.57	0.66	1.57	0.58
B 18	0.89	0.40	0.64	0.80	1.31	0.44
B 19	0.31	0.15	0.13	0.02	0.0	0.92
B 20	0.63	0.17	0.24	0.17	0.0	0.92
B 21	0.93	0.17	0.43	0.21	0.0	0.09
C 1	0.19	0.35	0.22	0.68	1.83	0.51
C 2	0.0	0.03	0.07	0.08	0.0	0.48

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DTY/ TASK	4038-E4	4038-E5	4038-E6	4038-E7	4038-E8	4038-E9
C 3	0.10	0.05	0.02	0.0	0.0	0.41
C 4	0.0	0.03	0.05	0.20	0.0	0.0
C 5	0.0	0.10	0.05	0.20	0.0	0.0
C 6	0.0	0.20	0.06	0.39	0.0	0.0
C 7	0.0	0.27	0.04	0.53	0.0	0.0
C 8	0.0	0.03	0.05	0.16	0.0	0.0
C 9	0.08	0.06	0.12	0.16	0.0	0.0
C 10	0.12	0.03	0.04	0.06	0.0	0.0
C 11	0.19	0.12	0.47	0.46	1.83	0.27
C 12	0.44	0.46	0.52	0.72	1.83	0.41
C 13	0.85	0.61	1.06	1.37	1.83	0.48
C 14	0.36	0.42	0.64	1.02	1.83	0.48
C 15	0.0	0.37	0.14	0.32	0.0	0.0
C 16	0.13	0.05	0.18	0.17	1.57	0.41
C 17	0.13	0.10	0.46	0.08	1.57	0.48
C 18	1.45	0.15	0.39	0.65	1.83	0.0
C 19	0.76	0.39	0.38	0.73	0.0	0.0
C 20	0.62	0.23	0.37	0.63	0.0	0.41
C 21	1.26	0.28	0.45	0.83	1.57	0.0
C 22	0.0	0.0	0.11	0.0	0.0	0.41
C 23	0.0	0.0	0.12	0.08	0.0	0.41
C 24	0.0	0.0	0.0	0.08	0.0	0.0
C 25	0.0	0.0	0.02	0.0	0.0	0.27
C 26	0.0	0.0	0.24	0.08	0.0	0.27
C 27	0.51	0.0	0.19	0.28	0.0	0.27
C 28	0.58	0.30	0.68	0.39	0.0	0.0
C 29	1.17	1.24	1.45	2.13	1.57	0.48
C 30	0.67	0.74	0.49	1.20	0.0	0.48
C 31	0.50	0.38	0.51	0.51	1.57	0.41
C 32	1.00	0.77	0.97	1.26	0.0	0.34
C 33	0.50	0.27	0.88	1.09	1.83	0.41
C 34	0.0	0.18	0.22	0.50	0.0	0.0
C 35	0.44	0.45	0.50	0.97	1.57	0.41
C 36	1.04	0.85	1.12	1.75	1.31	0.48
C 37	0.52	0.37	0.57	1.22	0.0	0.41
C 38	0.10	0.26	0.13	0.03	0.0	0.0
C 39	1.45	1.03	1.53	1.50	0.0	0.0
C 40	0.0	0.56	0.07	0.30	0.0	0.0
C 41	0.35	0.64	0.26	0.17	1.57	0.0
C 42	0.15	0.24	0.18	0.17	0.0	0.0
C 43	0.35	0.68	0.28	0.17	1.57	0.0
C 44	0.35	0.38	0.29	0.17	1.57	0.0

GROUP SUMMARY REP BY BMOS/GRADE

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DTY/ TASK	4038-E4	4038-E5	4038-E6	4038-E7	4038-E8	4038-E9
C 45	0.0	0.26	0.23	0.88	0.0	0.41
C 46	0.0	0.30	0.16	0.55	0.0	0.0
C 47	1.79	2.14	2.29	2.17	0.0	3.33
C 48	0.84	1.00	1.26	1.24	0.0	0.0
C 49	0.16	0.0	0.19	0.33	0.0	0.27
C 50	0.0	0.0	0.0	0.22	0.0	0.0
C 51	0.23	0.02	0.0	0.20	0.0	0.0
C 52	0.0	0.0	0.10	0.07	0.0	0.0
C 53	0.0	0.0	0.10	0.24	0.0	0.89
C 54	0.0	0.0	0.0	0.08	0.0	0.83
C 55	0.0	0.0	0.0	0.0	0.0	0.0
C 56	0.0	0.0	0.0	0.08	0.0	0.0
C 57	0.0	0.04	0.0	0.30	0.0	0.0
C 58	0.0	0.02	0.0	0.16	0.0	0.0
C 59	0.0	0.0	0.0	0.08	0.0	0.0
C 60	0.19	0.19	0.21	0.43	0.0	0.0
C 61	0.23	0.30	0.26	0.29	0.0	0.0
C 62	1.05	0.36	0.17	0.14	0.0	0.0
C 63	0.42	0.28	0.29	0.56	0.0	0.0
C 64	0.42	0.27	0.15	0.23	0.0	0.0
C 65	0.0	0.04	0.04	0.0	0.0	0.0
C 66	0.13	0.0	0.03	0.17	0.0	0.0
C 67	0.0	0.0	0.0	0.0	0.0	0.0
C 68	1.38	0.71	0.86	1.31	0.0	0.0
C 69	1.58	0.78	1.02	1.29	0.0	1.07
C 70	0.57	0.56	1.10	1.35	0.0	0.48
C 71	2.47	2.29	1.99	2.17	0.0	0.41
C 72	0.38	0.19	0.34	1.06	0.0	3.98
C 73	0.0	0.0	0.07	0.0	0.0	0.0
C 74	0.0	0.0	0.0	0.0	0.0	0.0
C 75	1.40	1.59	1.64	2.77	4.22	4.52
C 76	1.03	0.74	0.64	2.21	0.0	0.95
C 77	0.13	0.0	0.0	0.12	0.0	0.0
C 78	0.0	0.0	0.0	0.0	0.0	0.0
D 1	0.19	0.0	0.0	0.0	0.0	0.0
D 2	0.0	0.0	0.0	0.0	0.0	0.0
D 3	0.0	0.0	0.0	0.0	0.0	0.0
D 4	0.0	0.0	0.0	0.0	0.0	0.0
D 5	0.0	0.0	0.0	0.0	0.0	0.0
D 6	0.0	0.0	0.0	0.0	0.0	0.0
D 7	0.0	0.0	0.0	0.0	0.0	0.0
D 8	0.13	0.05	0.03	0.14	0.0	0.48
D 9	0.0	0.0	0.0	0.0	0.0	0.0

GROUP SUMMARY REP BY BMQS/GRADE

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DTY/ TASK	4038-E4	4038-E5	4038-E6	4038-E7	4038-E8	4038-E9
D 10	0.35	0.16	0.27	0.40	0.0	0.48
D 11	0.13	0.14	0.30	0.59	0.0	0.0
D 12	0.16	0.09	0.26	0.33	0.0	0.41
D 13	0.0	0.0	0.0	0.0	0.0	0.0
D 14	0.0	0.0	0.0	0.0	0.0	0.0
D 15	0.0	0.0	0.0	0.0	0.0	0.0
D 16	0.0	0.0	0.06	0.0	0.0	0.0
D 17	0.0	0.0	0.0	0.08	0.0	0.0
D 18	0.0	0.0	0.0	0.0	0.0	0.0
D 19	0.0	0.0	0.0	0.0	0.0	0.0
D 20	0.0	0.0	0.0	0.0	0.0	0.0
D 21	0.0	0.0	0.0	0.0	0.0	0.27
D 22	0.0	0.0	0.0	0.0	0.0	0.0
D 23	0.0	0.0	0.05	0.25	0.0	0.0
D 24	0.0	0.0	0.0	0.59	0.0	1.21
D 25	0.0	0.0	0.0	0.0	0.0	0.0
D 26	0.20	0.11	0.18	0.17	0.0	0.83
D 27	0.0	0.0	0.0	0.0	0.0	0.0
D 28	0.0	0.04	0.0	0.0	0.0	0.0
D 29	0.0	0.0	0.0	0.0	0.0	0.0
D 30	0.0	0.07	0.11	0.23	0.0	3.95
D 31	0.0	0.0	0.0	0.08	0.0	2.30
E 1	0.0	0.0	0.0	0.08	3.61	0.0
E 2	0.0	0.0	0.0	0.08	0.0	6.06
E 3	0.0	0.12	0.0	0.0	0.0	0.0
E 4	0.0	0.0	0.0	0.0	0.60	0.0
E 5	0.0	0.0	0.0	0.12	3.01	0.0
E 6	0.0	0.0	0.0	0.0	0.0	0.0
E 7	0.0	0.0	0.0	0.0	0.0	0.59
E 8	0.0	0.0	0.0	0.0	0.0	0.59
E 9	0.0	0.0	0.0	0.0	0.0	0.59
E 10	0.0	0.0	0.0	0.12	1.81	0.59
E 11	0.0	0.0	0.0	0.08	1.20	0.0
E 12	0.0	0.01	0.08	0.14	1.81	0.0
E 13	0.0	0.0	0.0	0.0	0.0	0.0
E 14	0.0	0.0	0.0	0.08	1.81	0.0
E 15	0.0	0.0	0.0	0.0	1.20	0.0
E 16	0.0	0.0	0.0	0.0	0.0	0.0
E 17	0.0	0.0	0.0	0.26	2.41	0.0
E 18	0.0	0.0	0.0	0.08	2.41	0.0
E 19	0.0	0.0	0.0	0.08	0.0	0.0
E 20	0.0	0.03	0.06	0.26	3.61	0.83

GROUP SUMMARY REP BY BMOS/GRADE

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DTY/ TASK	4038-E4	4038-E5	4038-E6	4038-E7	4038-E8	4038-E9
E 21	0.0	0.0	0.0	0.08	0.0	0.0
E 22	0.0	0.0	0.04	0.14	3.61	0.0
E 23	0.0	0.0	0.0	0.08	0.0	0.28
E 24	0.0	0.0	0.0	0.08	0.60	0.28
E 25	0.0	0.0	0.0	0.08	0.60	0.0
E 26	0.0	0.0	0.17	0.29	3.61	0.0
E 27	0.10	0.03	0.02	0.04	3.01	0.0
F 1	0.0	0.0	0.0	0.0	0.0	1.30
F 2	0.0	0.0	0.0	0.0	0.0	1.21
F 3	0.0	0.0	0.0	0.0	0.0	1.21
F 4	0.0	0.0	0.0	0.0	0.0	2.40
F 5	0.0	0.0	0.04	0.14	2.41	0.0
F 6	0.0	0.0	0.0	0.0	0.0	0.0
F 7	0.0	0.0	0.0	0.0	0.0	0.0
F 8	0.0	0.0	0.0	0.0	0.0	0.28
F 9	0.0	0.0	0.0	0.0	0.0	0.28
F 10	0.0	0.0	0.0	0.0	0.0	0.0
F 11	0.0	0.0	0.0	0.0	0.0	0.0
F 12	0.0	0.16	0.0	0.0	0.0	0.0
F 13	0.0	0.0	0.0	0.0	0.0	0.28
G 1	0.0	0.12	0.15	0.64	0.0	0.0
G 2	0.0	0.03	0.0	0.0	0.0	0.0
G 3	0.0	0.0	0.0	0.0	0.0	0.0
G 4	0.0	0.0	0.0	0.0	0.0	0.0
G 5	0.0	0.0	0.0	0.0	0.0	0.0
G 6	0.0	0.0	0.01	0.0	0.0	0.0
G 7	0.0	0.0	0.0	0.0	0.0	2.02
G 8	0.0	0.0	0.20	0.0	0.0	1.21
G 9	0.0	0.18	0.70	0.20	0.0	1.21
G 10	0.0	0.0	0.0	0.0	0.0	1.17
G 11	0.0	0.0	0.12	0.14	4.22	0.47
G 12	0.0	0.0	0.0	0.14	0.0	2.02
G 13	0.0	0.0	0.10	0.28	0.0	1.11
G 14	0.0	0.0	0.0	0.0	0.0	3.21
G 15	0.0	0.0	0.0	0.10	3.01	2.02
G 16	0.15	0.0	0.0	0.11	0.0	0.85
G 17	0.0	0.0	0.0	0.0	0.0	0.47
G 18	1.38	1.36	1.39	1.38	1.57	1.14
G 19	0.45	0.68	0.54	0.52	0.0	0.66
G 20	0.0	0.30	0.51	0.26	0.0	1.04
G 21	0.08	0.51	0.72	0.79	1.83	0.95

DUTY SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK.
OF40 GROUP SUMMARY REPORT FOR BNOS 4038 WITH GRADE E4-9

THE FOLLOWING GROUPS ARE INCLUDED IN THIS REPORT:

	.	MENBERS=	7.
4038-E4	DESCRIPTION	OF40 BMOS 4038 GRADE E4	
4038-E5	DESCRIPTION	OF40 BMOS 4038 GRADE E5	. MEMBERS= 31.
4038-E6	DESCRIPTION	OF40 BMOS 4038 GRADE E6	. MEMBERS= 26.
4038-E7	DESCRIPTION	OF40 BMOS 4038 GRADE E7	. MEMBERS= 16.
4038-E8	DESCRIPTION	OF40 BMOS 4038 GRADE E8	. MEMBERS= 2.
4038-E9	DESCRIPTION	OF40 BMOS 4038 GRADE E9	. MEMBERS= 4.

DTY/ TASK	DUTY/TASK TITLE	E	E	E	E	E	E	E	E
		4	5	6	7	8	9		
A	COMPUTER ROOM OPERATIONS	38	42	35	21	1	18		
B	PRODUCTION CONTROL AND ANALYSIS ACTIVITIES	28	28	29	25	18	9		
C	APPLICATIONS PROGRAMMER ACTIVITIES	31	26	30	44	32	27		
D	SYSTEM PROGRAMMER (OPERATING SYSTEM) ACTIVITIES	1	1	1	3	0	10		
E	SYSTEM PROGRAMMER (TELEPROCESSING) ACTIVITIES	0	0	0	2	35	10		
F	ADPE-FMF OPERATIONS	0	0	0	0	2	7		
G	SUPERVISORS ACTIVITIES	2	3	4	5	11	20		

DTY/ TASK	DUTY/TASK TITLE	4	4	4	4	4	4	4	4	4
A 66	REGULATE PRINT QUALITY ON XEROX MINI COMPUTER	0	0	0	0	0	0	0	0	0
A 63	REMOVE PRINTED PAPER FROM XEROX MINI COMPUTER	0	0	0	0	0	0	0	0	0
A 70	UNLOAD TAPE FROM XEROX MINI COMPUTER	0	0	0	0	0	0	0	0	0
A 71	SET DECOLLATOR CONTROLS	1	0	0	0	0	0	0	0	0
A 72	LOAD PAPER INTO DECOLLATOR	1	0	0	0	0	0	0	0	0
A 73	START DECOLLATOR	1	0	0	0	0	0	0	0	0
A 74	MONITOR DECOLLATOR OPERATION	1	0	0	0	0	0	0	0	0
A 75	UNLOAD CARBON FROM DECOLLATOR	1	0	0	0	0	0	0	0	0
A 76	UNLOAD PAPER FROM DECOLLATOR	1	0	0	0	0	0	0	0	0
A 77	SET BURSTER CONTROLS	0	0	0	0	0	0	0	0	0
A 78	LOAD FORMS INTO BURSTER	0	0	0	0	0	0	0	0	0
A 79	START BURSTER	0	0	0	0	0	0	0	0	0
A 80	MONITOR BURSTER OPERATION	0	0	0	0	0	0	0	0	0
A 81	UNLOAD FORMS FROM BURSTER	0	0	0	0	0	0	0	0	0
A 82	LOAD CAPDS INTO SORTER	0	0	0	0	0	0	0	0	0
A 83	SET SORTER CONTROLS	0	0	0	0	0	0	0	0	0
A 84	START SORTER	0	0	0	0	0	0	0	0	0
A 85	MONITOR SORTER OPERATION	0	0	0	0	0	0	0	0	0
A 86	REMOVE CARDS FROM SORTER	0	0	0	0	0	0	0	0	0
A 87	WIRE INTERPRETER BOARD	0	0	0	0	0	0	0	0	0
A 88	INSERT BOARD INTO INTERPRETER	0	0	0	0	0	0	0	0	0
A 89	LOAD CAPDS INTO INTERPRETER	1	0	0	0	0	0	0	0	0
A 90	SET INTERPRETER CONTROLS	1	0	0	0	0	0	0	0	0
A 91	START INTERPRETER	1	0	0	0	0	0	0	0	0
A 92	MONITOR INTERPRETER OPERATION	1	0	0	0	0	0	0	0	0
A 93	UNLOAD CARDS FROM INTERPRETER	1	0	0	0	0	0	0	0	0
A 94	REMOVE BOARD FROM INTERPRETER	0	0	0	0	0	0	0	0	0
A 95	WIRE REPRODUCER BOARD	0	0	0	0	0	0	0	0	0
A 96	INSERT BOARD INTO REPRODUCER	0	0	0	0	0	0	0	0	0
A 97	LOAD CAPDS INTO REPRODUCER	0	0	0	0	0	0	0	0	0
A 98	START REPRODUCER	0	0	0	0	0	0	0	0	0
A 99	MONITOR REPRODUCTION OPERATION	0	0	0	0	0	0	0	0	0
A 100	UNLOAD CARDS FROM REPRODUCER	0	0	0	0	0	0	0	0	0
A 101	REMOVE BOARD FROM REPRODUCER	0	0	0	0	0	0	0	0	0
A 102	LOAD PROGRAM INTO KEYPUNCH	0	0	0	0	0	0	0	0	0
A 103	LOAD CARDS INTO KEYPUNCH	1	1	1	1	0	0	0	0	0
A 104	SET KEYPUNCH CONTROLS	1	1	1	1	0	0	0	0	0
A 105	FEED OR REGISTER CARDS INTO KEYPUNCH	2	1	1	1	1	0	0	0	0

DTY/ TASK	DUTY/TASK TITLE	4	4	4	4	4	4	4	4	4
A106	KEYPUNCH CARDS	0	0	0	0	0	0	0	0	0
A107	UNLOAD CARDS FROM KEYPUNCH	0	0	0	0	0	0	0	0	0
A108	WIRE COLLATOR BOARD	8	8	8	8	8	8	8	8	8
A109	INSERT BOARD INTO COLLATOR	-	-	-	-	-	-	-	-	-
A110	LOAD CARDS INTO COLLATOR	E	E	E	E	E	E	E	E	E
A111	START COLLATOR	4	5	6	7	8	9			
A112	MONITOR COLLATOR OPERATION	2	1	1	1	0	0	0	0	0
A113	UNLOAD CARDS FROM COLLATOR	2	1	1	0	0	0	0	0	0
A114	REMOVE BOARD FROM COLLATOR	0	0	0	0	0	0	0	0	0
A115	SET PAPER TAPE READER CONTROLS	0	0	0	0	0	0	0	0	0
A116	LOAD TAPE INTO PAPER TAPE READER	0	0	0	0	0	0	0	0	0
A117	ADJUST PAPER TAPE READER CONTROLS	0	0	0	0	0	0	0	0	0
A118	START PAPER TAPE READER	0	0	0	0	0	0	0	0	0
A119	MONITOR PAPER TAPE READER OPERATION	0	0	0	0	0	0	0	0	0
A120	REMOVE TAPE FROM PAPER TAPE READER	0	0	0	0	0	0	0	0	0
A121	SET PAGE READER OR OPTICAL CHARACTER READER (OCR) CONTROLS	0	0	0	0	0	0	0	0	0
A122	LOAD DOCUMENTS INTO PAGE READER OR OCR	0	0	0	0	0	0	0	0	0
A123	ADJUST PAGE READER OR OCR CONTROLS	0	0	0	0	0	0	0	0	0
A124	START PAGE READER OR OCR	0	0	0	0	0	0	0	0	0
A125	MONITOR PAGE READER OR OCR OPERATION	0	0	0	0	0	0	0	0	0
A126	REMOVE DOCUMENTS FROM PAGE READER OR OCR	0	0	0	0	0	0	0	0	0
A127	CONVERT FROM COMMERCIAL POWER TO GENERATOR POWER	0	0	0	0	0	0	0	0	0
A128	INITIAL PROGRAM LOAD (IPL) SYSTEM	0	0	0	0	0	0	0	0	0
A129	INITIAL MONITOR LOAD (IML) CONTROLLERS	0	0	0	0	0	0	0	0	0
A130	PERFORM COMPUTER ROOM EMERGENCY OPERATIONS	0	0	0	0	0	0	0	0	0
A131	POWER UP PERIPHERALS	0	0	0	0	0	0	0	0	0
A132	COORDINATE NETWORK JOB ENTRY (NJE) NETWORK	0	0	0	0	0	0	0	0	0
A133	PERFORM HASPCOM PROCEDURES USING EXTERNAL WRITER	0	0	0	0	0	0	0	0	0
A134	DETERMINE PERIPHERALS DEVICE AVAILABILITY	0	0	0	0	0	0	0	0	0
A135	MAINTAIN COMPUTER ROOM LOG	1	0	0	0	0	0	0	0	0
A136	PROVIDE ASSISTANCE TO SYSTEMS PERSONNEL OR CUSTOMER ENGINEERS (CE) IN RESOLUTION OF SYSTEM PROBLEMS	0	0	0	0	0	1	1	1	1
A137	MONITOR SYSTEM (OMEGAMON, COM-LETE, ROSCOE)	0	0	1	1	2	0	0	0	0
A138	INITIALIZE VOLUME (TAPE OR DISK)	0	0	0	0	0	0	0	0	0
A139	ASSIGN SYSTEM RESOURCES TO BALANCE WORKLOAD	1	1	1	1	0	0	0	0	0
A140	DIRECT COMPUTER ROOM PERSONNEL IN RESPONSE TO SYSTEM	1	1	1	1	1	0	1		
COMMANDS OR MESSAGES										
B	1 GENERATE PRODUCTION JOB REQUEST	0	1	1	1	1	2	0		
B	2 SUBMIT JOB FOR PROCESSING	2	2	2	2	2	2	1		

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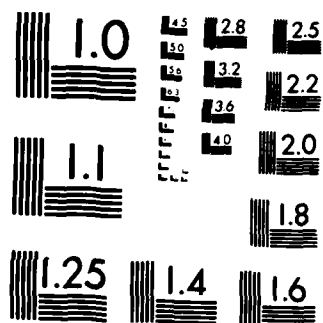
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SYSTEMS/HQ DEPARTMENT OF THE NAVY WASHINGTON DC 20340

UNCLASSIFIED F/G 5/9 NL

UNCLASSIFIED F/G 5/9 NL

UNCLASSIFIED F/G 5/9 NL

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DTY/ TASK	DUTY/TASK TITLE	4	4	4	4	4	4	4	4	4
B 3	DISTRIBUTE INPUT OR OUTPUT	1	1	1	1	0	0	0	0	0
B 4	VERIFY SUCCESSFUL JOB EXECUTION BY COMPLETION CODES ON DEALLOCATIONS	3	3	3	3	3	3	3	3	3
B 5	OPTIMIZE PRODUCTION JOB PACKAGE AS REQUIRED	1	1	1	1	2	1	2	1	1
B 6	USCREEN PRODUCTION JOB REQUEST FOR ACCURACY AND COMPLETENESS	1	2	2	2	2	2	2	2	0
B 7	REVIEW ENTIRE PRODUCTION JOB DOCUMENTATION PACKAGE PRIOR TO EXECUTION	1	2	2	2	2	2	2	2	1
B 8	PREPARE OR SETUP JOB FOR PRODUCTION IN ACCORDANCE WITH (IAW) JOB DOCUMENTATION	2	2	2	2	2	2	2	2	0
B 9	MONITOR JOB DURING EXECUTION	3	2	3	2	0	1	2	0	1
B 10	MONITOR JOB FLOW (SYSTEM STATUS)	2	2	2	2	2	0	1	2	0
B 11	TROUBLESHOOT PRODUCTION ABNORMAL END OF JOB (ABE'DS) OR JOB DOCUMENTATION PROBLEMS	2	2	3	3	2	1	2	3	2
B 12	PERFORM QUALITY CONTROL (QC) CHECKS ON OUTPUT	1	2	2	2	1	0	0	0	0
B 13	PREPARE OUTPUT FOR SUPPLEMENTAL OPERATIONS (INTERPRETING, BOOKING AND BINDING, EURLSTING IAW JOB DOCUMENTATION)	1	1	0	0	0	0	0	0	0
B 14	ORGANIZE INPUT/OUTPUT FOR DISTRIBUTION	1	1	1	1	0	0	0	0	0
B 15	MAINTAIN PRODUCTION JOB DOCUMENTATION FILE	2	1	2	1	2	1	2	1	1
B 16	ANALYZE PRODUCTION JOB FOR OPTIMIZATION	1	1	1	2	2	1	2	2	1
B 17	CONDUCT ANNUAL AUDIT OF PRODUCTION JOBS	0	0	1	1	2	1	2	1	1
B 18	SCHEDULE PRODUCTION JOBS	1	0	1	1	1	0	1	1	0
B 19	DESIGNATE CLASSIFIED MATERIAL FOR DESTRUCTION	0	0	0	0	0	0	0	0	1
B 20	DESIGNATE CLASSIFIED OR PRIVACY ACT MATERIAL	1	0	0	0	0	0	0	0	1
B 21	SECURE SITE OR EQUIPMENT FOR CLASSIFIED PROCESSING	1	0	0	0	0	0	0	0	0
C 1	EVALUATE CUSTOMER'S REQUEST TO DETERMINE PROGRAM REQUIREMENT	0	0	0	0	1	2	1	2	1
C 2	DRAW LAYOUT OF PROGRAM INPUTS AND OUTPUTS	0	0	0	0	0	0	0	0	0
C 3	WRITE PROGRAM FLOWCHART	0	0	0	0	0	0	0	0	0
C 4	CODE (WRITE) SOURCE PROGRAM	0	0	0	0	0	0	0	0	0
C 5	KEY IN (CODE) PROGRAM DATA	0	0	0	0	0	0	0	0	0
C 6	WRITE COMPILER JOB CONTROL LANGUAGE (JCL)	0	0	0	0	0	0	0	0	0
C 7	KEY IN COMPILER JCL DATA	0	0	0	0	1	0	0	0	0
C 8	COMPILE OR ASSEMBLE PROGRAM	0	0	0	0	0	0	0	0	0
C 9	WRITE PROGRAM TEST JCL	0	0	0	0	0	0	0	0	0
C 10	TEST APPLICATIONS PROGRAM	0	0	0	0	0	0	0	0	0
C 11	WRITE PRODUCTION PROCEDURE	0	0	0	0	0	0	2	0	0
C 12	TEST PRODUCTION PROCEDURE	0	0	0	1	1	2	0	0	0
C 13	WRITE OR UPDATE PRODUCTION JOB DOCUMENTATION	1	1	1	1	1	2	0	0	0

DTY/ TASK	DUTY/TASK TITLE	4	4	4	4	4	4	4	4	4
F 7	PREPARE ADPE-FMF EQUIPMENT FOR DEPLOYMENT	0	0	0	0	0	0	0	0	0
F 8	TRAIN FUNCTIONAL USERS ON ADPE-FMF EQUIPMENT	0	0	0	0	0	0	0	0	0

F 9	TRAIN FUNCTIONAL USERS ON ADPE-FMF EQUIPMENT APPLICATIONS	0	0	0	0	0	0	0	0	0
F 10	DISTRIBUTE CLASS 1B AND CLASS 11 SOFTWARE FOR ADPE-FMF USERS	0	0	0	0	0	0	0	0	0
F 11	PERFORM PREVENTIVE MAINTENANCE (PM) ON ADPE-FMF EQUIPMENT	0	0	0	0	0	0	0	0	0
F 12	MAINTAIN LIBRARY OF ADPE-FMF APPLICATIONS SOFTWARE AND DOCUMENTATION	0	0	0	0	0	0	0	0	0
F 13	PROVIDE ASSISTANCE TO ADPE-FMF FUNCTIONAL	0	0	0	0	0	0	0	0	0

USERS										
G 15	SUPERVISE EXECUTION OF SYSTEM BACKUP PROCEDURES	0	0	0	0	1	0	0	0	0
G 25	SUPERVISE PERSONNEL PERFORMING SYSTEMS PROGRAMMING DUTIES	0	0	0	0	0	0	0	0	0
G 35	EVALUATE SOFTWARE, DOCUMENTATION AND OUTPUT FOR COMPLIANCE WITH STANDARDS OR SPECIFICATIONS	0	0	0	0	0	0	0	0	0
G 4	TRAIN PERSONNEL IN APPLICATIONS PROGRAMMING TECHNIQUES	0	0	0	0	0	0	0	0	0
G 55	SUPERVISE PERSONNEL PERFORMING APPLICATIONS PROGRAMMING	0	0	0	0	0	0	0	0	0

DUTIES										
G 6	WRITE CLASSIFIED MATERIAL SECURITY HANDLING PROCEDURES	0	0	0	0	0	0	0	0	0
G 7	EVALUATE AUTOMATED DATA PROCESSING (ADP) SECURITY PROGRAMS	0	0	0	0	0	0	0	0	2
G 85	SUPERVISE MAINTENANCE OF ADP EQUIPMENT	0	0	0	0	0	0	0	0	1
G 95	SUPERVISE PERSONNEL OPERATING ADP EQUIPMENT	0	0	0	1	0	0	0	0	1
G 105	SUPERVISE SYSTEMS ANALYSIS AND DESIGN TEAMS	0	0	0	0	0	0	0	0	1

G 115	SUPERVISE PERSONNEL PERFORMING TELEPROCESSING OPERATIONS	0	0	0	0	0	0	0	0	0
G 12	REVIEW ADP EQUIPMENT DAILY UTILIZATION LOG	0	0	0	0	0	0	0	0	2
G 13	PREPARE ADP MANAGEMENT REPORTS	0	0	0	0	0	0	0	0	1
G 14	PREPARE ADP BUDGET	0	0	0	0	0	0	0	0	3
G 15	RECOMMEND NEW HARDWARE PROCUREMENT	0	0	0	0	0	0	0	0	2

G 16	TRAIN PERSONNEL IN ADP SECURITY REQUIREMENTS	0	0	0	0	0	0	0	0	1
G 17	TRAIN PERSONNEL IN SYSTEMS PROGRAMMING TECHNIQUES	0	0	0	0	0	0	0	0	0
G 18	TRAIN PERSONNEL IN PRODUCTION CONTROL PROCEDURES	1	1	1	1	1	1	2	1	1
G 19	TRAIN PERSONNEL IN INPUT/OUTPUT OPERATIONS	0	1	1	1	1	1	0	1	1
G 20	TRAIN PERSONNEL IN COMPUTER ROOM OPERATIONS	0	0	1	0	0	0	0	0	1

G 21	TRAIN PERSONNEL IN PRODUCTION ANALYSIS PROCEDURES	0	1	1	1	1	1	2	1	1

2041
Teleprocessor

GROUP SUMMARY REP BY STAGE/GRADE

OF400283

DUTY SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK.
OF40 GROUP SUMMARY REPORT FOR STAGE 18 BY GRADE

000000008

THE FOLLOWING GROUPS ARE INCLUDED IN THIS REPORT:

- MEMBERS= 4.
- MEMBERS= 1.
- MEMBERS= 3.
- MEMBERS= 2.
- MEMBERS= 1.
- MEMBERS= 1.
- MEMBERS= 1.

DTY/TASK	STGE1-3	STGE18E4	STGE18E5	STGE18E6	STGE18E7	STGE18E8	STGE18E9
A	15.39	22.72	10.29	3.32	6.44	2.41	9.18
B	0.0	0.0	4.08	2.89	14.17	0.0	1.70
C	2.19	12.50	20.92	26.53	31.88	8.43	36.38
D	0.0	13.63	8.76	1.58	4.51	0.0	6.46
E	79.26	40.90	38.49	62.84	28.67	69.86	37.40
F	0.73	5.68	8.41	0.0	2.26	4.82	1.36
G	2.38	4.84	8.91	2.80	11.92	14.46	7.48

GROUP SUMMARY REP BY STAGE/GRADE

TASK SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK.
OF 40 GROUP SUMMARIES, REPORT FOR STAGE 18 BY GRADE

THE FOLLOWING GR "PS ARE INCLUDED IN THIS REPORT:

S18E1-3	DESCRIPTION FOR	CF40	STAGE 18	RANK=E1-3
STG18E4	DESCRIPTION FOR	CF40	STAGE 18	RANK=E4
STG18E5	DESCRIPTION FOR	CF40	STAGE 18	RANK=E5
STG18E6	DESCRIPTION FOR	CF40	STAGE 18	RANK=E6
STG18E7	DESCRIPTION FOR	CF40	STAGE 18	RANK=E7
STG18E8	DESCRIPTION FOR	CF40	STAGE 18	RANK=E8
STG18E9	DESCRIPTION FOR	CF40	STAGE 18	RANK=E9

4. MEMBERS=
1. MEMBERS=
3. MEMBERS=
2. MEMBERS=
1. MEMBERS=
1. MEMBERS=
1. MEMBERS=

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DTY/ TASK	S18E1-3	STG18E4	STG18E5	STG18E6	STG18E7	STG18E8	STG18E9
A 1	1.14	5.68	0.56	2.80	0.32	0.0	0.34
A 2	1.09	5.68	0.56	0.0	0.32	0.0	0.0
A 3	1.28	0.0	0.09	0.0	0.0	0.0	0.0
A 4	0.0	0.0	0.09	0.0	0.0	0.0	0.0
A 5	0.55	0.0	0.09	0.0	0.0	0.0	0.0
A 6	1.28	0.0	0.09	0.0	0.0	0.0	0.0
A 7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 10	0.18	0.0	0.0	0.0	0.0	0.0	0.0
A 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 12	0.18	0.0	0.0	0.0	0.0	0.0	0.0
A 13	0.18	0.0	0.0	0.0	0.0	0.0	0.0
A 14	0.18	0.0	0.0	0.0	0.0	0.0	0.0
A 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 16	0.18	0.0	0.0	0.0	0.0	0.0	0.0
A 17	0.18	0.0	0.0	0.0	0.0	0.0	0.0
A 18	0.18	0.0	0.0	0.0	0.0	0.0	0.0
A 19	0.18	0.0	0.0	0.0	0.0	0.0	0.0
A 20	0.18	0.0	0.0	0.0	0.0	0.0	0.0
A 21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 22	0.18	0.0	0.0	0.0	0.0	0.0	0.0
A 23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 26	1.10	0.0	0.09	0.0	0.0	0.0	0.0
A 27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 29	0.73	0.0	0.0	0.0	0.0	0.0	0.0
A 30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 34	0.0	0.0	0.0	0.0	0.0	0.0	0.0

GROUP SUMMARY REP BY STAGE/GRADE

DTY/ TASK	STG18E1-3	STG18E4	STG18E5	STG18E6	STG18E7	STG18E8	STG18E9
A 35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 37	0.73	0.0	0.0	0.0	0.0	0.0	0.0
A 38	0.91	0.0	0.0	0.0	0.0	0.0	0.0
A 39	0.91	1.14	0.0	0.0	0.0	0.0	0.0
A 40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 76	0.0	0.0	0.0	0.0	0.0	0.0	0.0

GROUP SUMMARY REP BY STAGE/GRADE

DTY/ TASK	S18E1-3	STG18E4	STG18E5	STG18E6	STG18E7	STG18E8	STG18E9
A 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A101	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A102	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A103	0.0	0.0	0.23	0.0	0.0	0.0	0.0
A104	0.0	0.0	0.23	0.0	0.0	0.0	0.0
A105	0.0	0.0	0.23	0.0	0.0	0.0	0.0
A106	0.0	0.0	0.23	0.0	0.0	0.0	0.34
A107	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A108	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A109	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A110	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A111	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A112	0.0	0.0	1.46	0.0	0.0	0.0	0.0
A113	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A114	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A115	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A116	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A117	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A118	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A119	0.0	0.0	0.0	0.0	0.0	0.0	0.0

GROUP SUMMARY REP BY STAGE/GRADE

DTY/ TASK	S18E1-3	STG18E4	STG18E5	STG18E6	STG18E7	STG18E8	STG18E9
A120	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A121	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A122	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A123	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A124	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A125	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A126	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A127	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A128	0.36	1.14	0.87	0.26	0.64	0.0	1.02
A129	0.0	0.0	0.0	0.26	0.0	0.0	1.70
A130	0.0	0.0	0.37	0.0	0.0	0.0	0.0
A131	0.36	0.0	0.48	0.0	0.0	0.0	0.0
A132	0.0	0.0	0.56	0.0	1.61	0.0	1.36
A133	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A134	0.91	0.0	0.47	0.0	0.0	0.0	0.0
A135	1.09	4.54	0.56	0.0	0.0	0.0	0.0
A136	0.0	0.0	1.12	0.0	1.61	2.41	1.36
A137	0.0	0.0	1.20	0.0	1.93	0.0	1.02
A138	1.09	0.0	0.0	0.0	0.0	0.0	0.0
A139	0.0	0.0	0.0	0.0	0.0	0.0	1.02
A140	0.0	4.54	0.66	0.0	0.0	0.0	1.02
B 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B 2	0.0	0.0	0.33	1.84	1.29	0.0	0.0
B 3	0.0	0.0	0.39	0.0	0.0	0.0	0.0
B 4	0.0	0.0	0.47	0.0	1.29	0.0	0.0
B 5	0.0	0.0	0.0	0.0	1.29	0.0	0.0
B 6	0.0	0.0	0.39	0.0	1.29	0.0	0.0
B 7	0.0	0.0	0.0	0.0	1.29	0.0	0.0
B 8	0.0	0.0	0.0	0.0	1.29	0.0	0.0
B 9	0.0	0.0	0.31	1.05	1.29	0.0	0.68
B 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B 11	0.0	0.0	0.47	0.0	1.93	0.0	1.02
B 12	0.0	0.0	0.47	0.0	1.29	0.0	0.0
B 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B 14	0.0	0.0	0.39	0.0	0.0	0.0	0.0
B 15	0.0	0.0	0.47	0.0	0.64	0.0	0.0
B 16	0.0	0.0	0.31	0.0	0.0	0.0	0.0
B 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B 18	0.0	0.0	0.0	0.0	0.64	0.0	0.0
B 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B 21	0.0	0.0	0.09	0.0	0.64	0.0	0.0

GROUP SUMMARY REP BY STAGE/GRADE

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DTY/ TASK	STG18E1-3	STG18E4	STG18E5	STG18E6	STG18E7	STG18E8	STG18E9
C 1	0.0	0.0	0.31	0.0	0.0	0.0	0.0
C 2	0.0	0.0	0.47	0.0	0.0	0.0	0.0
C 3	0.0	0.0	0.47	0.0	0.0	0.0	0.0
C 4	0.0	0.0	0.47	0.0	0.0	0.0	1.36
C 5	0.0	0.0	0.47	1.58	0.0	0.0	1.36
C 6	0.0	0.0	0.47	0.0	0.0	0.0	1.36
C 7	0.0	0.0	0.47	0.0	0.0	0.0	1.36
C 8	0.0	0.0	0.47	1.58	0.0	0.0	1.36
C 9	0.0	0.0	0.39	0.0	0.0	0.0	0.0
C 10	0.0	0.0	0.0	0.0	0.96	0.0	0.0
C 11	0.0	0.0	0.31	0.0	0.0	0.0	0.0
C 12	0.0	0.0	0.47	0.0	0.96	0.0	0.0
C 13	0.0	0.0	0.47	0.0	0.96	0.0	0.0
C 14	0.0	0.0	0.39	0.0	0.96	0.0	0.0
C 15	0.0	0.0	0.47	0.0	0.0	0.0	0.0
C 16	0.0	0.0	0.47	0.0	0.0	0.0	0.0
C 17	0.0	0.0	0.47	0.0	0.0	0.0	0.0
C 18	0.0	0.0	0.47	0.0	0.0	0.0	0.0
C 19	0.0	0.0	0.47	0.0	0.0	0.0	0.0
C 20	0.0	0.0	0.47	0.0	0.0	0.0	0.0
C 21	0.0	0.0	0.47	0.0	0.0	0.0	0.0
C 22	0.0	0.0	0.39	0.0	0.0	0.0	0.0
C 23	0.0	0.0	0.39	0.0	0.0	0.0	0.0
C 24	0.0	0.0	0.39	0.0	0.0	0.0	0.0
C 25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C 26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C 27	0.0	0.0	0.0	0.0	1.61	0.0	0.0
C 28	0.0	0.0	0.0	0.0	0.0	0.0	1.02
C 29	0.0	0.0	0.48	1.05	1.29	0.0	1.02
C 30	0.0	0.0	0.09	0.79	0.64	0.0	1.02
C 31	0.0	0.0	0.0	0.79	0.0	0.0	1.36
C 32	0.0	0.0	0.0	0.79	1.29	0.0	1.36
C 33	0.0	0.0	0.0	0.53	0.64	0.0	1.36
C 34	0.0	0.0	0.0	0.53	0.0	0.0	1.36
C 35	0.0	0.0	0.39	0.53	0.64	0.0	1.36
C 36	0.0	0.0	0.47	0.0	1.93	0.0	1.36
C 37	0.0	0.0	0.39	0.0	1.93	0.0	1.02
C 38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C 39	0.0	0.0	0.0	0.0	0.0	0.0	1.02
C 40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C 41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C 42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C 43	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DIV/ TASK	S18E1-3	STG18E4	STG18E5	STG18E6	STG18E7	STG18E8	STG18E9
C 44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C 45	0.0	0.0	0.47	0.0	0.0	0.0	1.02
C 46	0.0	0.0	0.97	1.58	1.29	0.0	1.70
C 47	1.09	5.68	1.12	1.31	2.26	0.0	1.70
C 48	0.0	0.0	0.0	1.05	1.29	0.0	1.02
C 49	0.0	0.0	0.0	1.58	0.0	0.0	1.70
C 50	0.0	0.0	0.0	1.60	0.0	0.0	0.0
C 51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C 52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C 53	0.0	0.0	0.0	1.60	1.29	0.0	0.0
C 54	0.0	0.0	0.0	0.0	1.29	0.0	0.0
C 55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C 56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C 57	0.0	0.0	0.66	1.60	2.26	0.0	0.0
C 58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C 59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C 60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C 61	0.0	0.0	0.39	0.0	0.0	0.0	0.0
C 62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C 63	0.0	0.0	0.47	0.0	0.0	0.0	0.0
C 64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C 65	0.0	0.0	0.66	0.0	0.0	0.0	1.70
C 66	0.0	0.0	0.31	0.0	0.0	0.0	1.02
C 67	0.0	0.0	0.23	0.0	0.0	0.0	0.0
C 68	0.0	0.0	0.31	1.05	0.0	0.0	1.02
C 69	0.0	0.0	0.0	1.05	0.64	0.0	1.02
C 70	0.0	0.0	0.0	1.05	0.64	0.0	1.02
C 71	0.0	0.0	0.0	0.0	1.29	0.0	0.0
C 72	0.0	0.0	0.83	0.0	1.29	0.0	0.0
C 73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C 74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C 75	1.09	6.82	1.12	4.11	2.26	8.43	1.70
C 76	0.0	0.0	1.12	0.79	2.26	0.0	1.70
C 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C 78	0.0	0.0	0.37	0.0	0.0	0.0	0.0
D 1	0.0	0.0	0.19	0.0	0.0	0.0	0.0
D 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D 5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D 6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D 7	0.0	0.0	0.0	0.0	0.0	0.0	0.0

GROUP SUMMARY REP BY STAGE/GRADE

DTY/ TASK	S10E1-3	STG18E4	STG18E5	STG18E6	STG18E7	STG18E8	STG18E9
D 8	0.0	0.0	0.0	0.0	0.0	0.0	1.02
D 9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D 10	0.0	0.0	0.0	0.0	0.0	0.0	1.02
D 11	0.0	0.0	0.0	0.0	0.64	0.0	1.36
D 12	0.0	0.0	0.0	0.0	1.29	0.0	1.36
D 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D 16	0.0	0.0	1.46	0.0	0.0	0.0	0.0
D 17	0.0	0.0	0.0	0.0	1.29	0.0	1.70
D 18	0.0	0.0	1.25	0.0	0.0	0.0	0.0
D 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D 21	0.0	3.41	0.39	1.58	0.0	0.0	0.0
D 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D 23	0.0	4.54	0.95	0.0	0.0	0.0	0.0
D 24	0.0	0.0	1.05	0.0	0.0	0.0	0.0
D 25	0.0	0.0	0.66	0.0	0.0	0.0	0.0
D 26	0.0	5.68	1.12	0.0	0.0	0.0	0.0
D 27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D 28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D 29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D 30	0.0	0.0	0.76	0.0	0.0	0.0	0.0
D 31	0.0	0.0	0.94	0.0	1.29	0.0	0.0
E 1	4.03	6.82	1.20	4.64	1.29	7.23	1.02
E 2	0.73	0.0	0.97	1.58	1.29	0.0	0.0
E 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E 4	0.0	0.0	0.89	1.58	0.0	1.20	2.04
E 5	0.0	0.0	1.05	3.18	1.93	6.02	2.04
E 6	0.0	0.0	0.87	1.84	0.0	0.0	2.04
E 7	0.0	0.0	1.29	1.84	0.0	0.0	2.04
E 8	0.0	0.0	1.91	1.84	0.0	0.0	2.04
E 9	1.38	0.0	2.11	1.84	0.0	0.0	2.04
E 10	1.38	0.0	2.09	1.84	1.93	3.61	2.04
E 11	0.0	1.14	1.84	3.45	1.29	2.41	0.0
E 12	3.85	5.68	2.50	2.40	2.26	3.61	1.70
E 13	0.0	0.0	1.09	1.58	0.0	0.0	1.02
E 14	1.47	0.0	2.35	4.64	1.29	3.61	2.04
E 15	0.0	0.0	1.57	0.0	0.0	2.41	0.0
E 16	0.0	0.0	1.04	0.0	0.0	0.0	1.02
E 17	4.58	0.0	1.05	2.80	2.26	4.82	1.02
E 18	1.19	0.0	1.70	2.00	1.29	4.82	1.36
E 19	4.92	0.0	0.89	2.80	1.29	0.0	1.36

GROUP SUMMARY REP BY STAGE/GRADE

DTY/ TASK	S18E1-3	STG18E4	STG18E5	STG18E6	STG18E7	STG18E8	STG18E9
E 20	6.33	5.68	1.12	3.59	2.26	7.23	0.0
E 21	3.30	0.0	1.05	2.00	1.29	0.0	2.04
E 22	9.39	6.82	2.50	3.59	2.26	7.23	2.04
E 23	5.09	0.0	2.37	0.53	1.29	0.0	1.70
E 24	6.42	0.0	1.05	2.26	1.29	1.20	1.70
E 25	7.55	0.0	1.75	2.79	1.29	1.20	1.70
E 26	10.13	6.82	1.20	4.11	2.26	7.23	1.70
E 27	7.52	7.95	1.05	4.11	0.64	6.02	1.70
F 1	0.73	0.0	0.0	0.0	0.0	0.0	0.0
F 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F 5	0.0	0.0	0.47	0.0	2.26	4.82	1.36
F 6	0.0	5.68	2.11	0.0	0.0	0.0	0.0
F 7	0.0	0.0	1.25	0.0	0.0	0.0	0.0
F 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F 9	0.0	0.0	0.83	0.0	0.0	0.0	0.0
F 10	0.0	0.0	0.83	0.0	0.0	0.0	0.0
F 11	0.0	0.0	1.04	0.0	0.0	0.0	0.0
F 12	0.0	0.0	0.83	0.0	0.0	0.0	0.0
F 13	0.0	0.0	1.04	0.0	0.0	0.0	0.0
G 1	0.0	0.0	0.62	0.0	1.29	0.0	1.36
G 2	0.0	0.0	0.0	0.0	0.0	0.0	1.36
G 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G 5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G 6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G 7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G 9	0.0	0.0	1.04	0.0	2.26	0.0	0.0
G 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G 11	2.38	0.0	2.66	2.80	2.26	8.43	2.04
G 12	0.0	0.0	1.60	0.0	2.26	0.0	0.0
G 13	0.0	0.0	0.0	0.0	2.26	0.0	0.0
G 14	0.0	0.0	0.83	0.0	0.0	0.0	0.0
G 15	0.0	0.0	1.49	0.0	1.61	6.02	1.70
G 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G 17	0.0	0.0	0.0	0.0	0.0	0.0	1.02
G 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G 20	0.0	4.54	0.66	0.0	0.0	0.0	0.0
G 21	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DUTY SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK.

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THE FOLLOWING GROUPS ARE INCLUDED IN THIS REPORT:

STAGE	DESCRIPTION	RANK	MEMBERS
1	STG18E1	1	MEMBERS=1
2	STG18E2	2	MEMBERS=2
3	STG18E3	3	MEMBERS=3
4	STG18E4	4	MEMBERS=4
5	STG18E5	5	MEMBERS=5
6	STG18E6	6	MEMBERS=6
7	STG18E7	7	MEMBERS=7
8	STG18E8	8	MEMBERS=8
9	STG18E9	9	MEMBERS=9
10	STG18E10	10	MEMBERS=10
11	STG18E11	11	MEMBERS=11
12	STG18E12	12	MEMBERS=12
13	STG18E13	13	MEMBERS=13
14	STG18E14	14	MEMBERS=14
15	STG18E15	15	MEMBERS=15
16	STG18E16	16	MEMBERS=16
17	STG18E17	17	MEMBERS=17
18	STG18E18	18	MEMBERS=18
19	STG18E19	19	MEMBERS=19
20	STG18E20	20	MEMBERS=20
21	STG18E21	21	MEMBERS=21
22	STG18E22	22	MEMBERS=22
23	STG18E23	23	MEMBERS=23
24	STG18E24	24	MEMBERS=24
25	STG18E25	25	MEMBERS=25
26	STG18E26	26	MEMBERS=26
27	STG18E27	27	MEMBERS=27
28	STG18E28	28	MEMBERS=28
29	STG18E29	29	MEMBERS=29
30	STG18E30	30	MEMBERS=30
31	STG18E31	31	MEMBERS=31
32	STG18E32	32	MEMBERS=32
33	STG18E33	33	MEMBERS=33
34	STG18E34	34	MEMBERS=34
35	STG18E35	35	MEMBERS=35
36	STG18E36	36	MEMBERS=36
37	STG18E37	37	MEMBERS=37
38	STG18E38	38	MEMBERS=38
39	STG18E39	39	MEMBERS=39
40	STG18E40	40	MEMBERS=40
41	STG18E41	41	MEMBERS=41
42	STG18E42	42	MEMBERS=42
43	STG18E43	43	MEMBERS=43
44	STG18E44	44	MEMBERS=44
45	STG18E45	45	MEMBERS=45
46	STG18E46	46	MEMBERS=46
47	STG18E47	47	MEMBERS=47
48	STG18E48	48	MEMBERS=48
49	STG18E49	49	MEMBERS=49
50	STG18E50	50	MEMBERS=50
51	STG18E51	51	MEMBERS=51
52	STG18E52	52	MEMBERS=52
53	STG18E53	53	MEMBERS=53
54	STG18E54	54	MEMBERS=54
55	STG18E55	55	MEMBERS=55
56	STG18E56	56	MEMBERS=56
57	STG18E57	57	MEMBERS=57
58	STG18E58	58	MEMBERS=58
59	STG18E59	59	MEMBERS=59
60	STG18E60	60	MEMBERS=60
61	STG18E61	61	MEMBERS=61
62	STG18E62	62	MEMBERS=62
63	STG18E63	63	MEMBERS=63
64	STG18E64	64	MEMBERS=64
65	STG18E65	65	MEMBERS=65
66	STG18E66	66	MEMBERS=66
67	STG18E67	67	MEMBERS=67
68	STG18E68	68	MEMBERS=68
69	STG18E69	69	MEMBERS=69
70	STG18E70	70	MEMBERS=70
71	STG18E71	71	MEMBERS=71
72	STG18E72	72	MEMBERS=72
73	STG18E73	73	MEMBERS=73
74	STG18E74	74	MEMBERS=74
75	STG18E75	75	MEMBERS=75
76	STG18E76	76	MEMBERS=76
77	STG18E77	77	MEMBERS=77
78	STG18E78	78	MEMBERS=78
79	STG18E79	79	MEMBERS=79
80	STG18E80	80	MEMBERS=80
81	STG18E81	81	MEMBERS=81
82	STG18E82	82	MEMBERS=82
83	STG18E83	83	MEMBERS=83
84	STG18E84	84	MEMBERS=84
85	STG18E85	85	MEMBERS=85
86	STG18E86	86	MEMBERS=86
87	STG18E87	87	MEMBERS=

DTY/
TASK

DUTY/TASK TITLE

	A	B	C	D	E	F
COMPUTER ROOM OPERATIONS	15	23	10	3	6	2
PRODUCTION CONTROL AND ANALYSIS ACTIVITIES	2	0	4	3	14	0
APPLICATIONS PROGRAMMER ACTIVITIES	0	2	12	21	27	32
SYSTEM PROGRAMMER (OPERATING SYSTEM) ACTIVITIES	0	14	9	2	5	0
SYSTEM PROGRAMMER (TELEPROCESSING) ACTIVITIES	79	41	38	63	29	70
ADPE-FMF OPERATIONS	1	6	8	0	2	5
SUPERVISORS ACTIVITIES	2	5	9	3	12	14

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GROUP SUMMARY REP BY STAGE/GRADE

DUTY SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK.
OF40 GROUP SUMMARY REPORT FOR STAGE 67 BY GRADE

THE FOLLOWING GRIDS ARE INCLUDED IN THIS REPORT:

- S67E1-3 DESCRIPTION FOR JF40 STAGE 67 RANKS E1-3
- STG67E4 DESCRIPTION FOR JF40 STAGE 67 RANK=E4
- STG67E5 DESCRIPTION FOR JF40 STAGE 67 RANK=E5
- STG67E6 DESCRIPTION FOR JF40 STAGE 67 RANK=E6
- STG67E7 DESCRIPTION FOR JF40 STAGE 67 RANK=E7
- STG67E8 DESCRIPTION FOR JF40 STAGE 67 RANK=E8

- MEMBERS= 22.
- MEMBERS= 27.
- MEMBERS= 77.
- MEMBERS= 27.
- MEMBERS= 14.
- MEMBERS= 7.

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TASK	S67E1-3	STG67E4	STG67E5	STG67E6	S67E7	STG67E8
A	7.39	3.69	5.22	4.85	2.33	4.94
B	17.47	14.53	12.95	12.23	11.13	6.73
C	71.26	79.42	79.90	80.40	84.21	84.08
D	2.05	1.73	0.88	0.83	0.37	1.98
E	0.37	0.25	0.18	0.67	0.36	0.36
F	1.10	0.20	0.40	0.17	0.06	0.0
G	0.28	0.08	0.36	0.75	1.45	1.78

TASK SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK.
OF40 GROUP SUMMARY REPORT FOR STAGE 67 BY GRADE

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THE FOLLOWING GROUPS ARE INCLUDED IN THIS REPORT:

S67E1-3 DESCR: :ION FOR JF40 STAGE 67 RANK=E1-3
 STG67E4 DESCR: :ION FOR JF40 STAGE 67 RANK=E4
 STG67E5 DESCR: :ION FOR JF40 STAGE 67 RANK=E5
 STG67E6 DESCR: :ION FOR JF40 STAGE 67 RANK=E6
 STG67E7 DESCR: :ION FOR JF40 STAGE 67 RANK=E7
 STG67E8 DESCR: :ION FOR JF40 STAGE 67 RANK=E8

.MEMBERS= 22.
 .MEMBERS= 27.
 .MEMBERS= 77.
 .MEMBERS= 27.
 .MEMBERS= 14.
 .MEMBERS= 7.

DTY/ TASK	S67E1-3	STG67E4	STG67E5	STG67E6	STG67E7	STG67E8
A 1	2.26	0.72	0.65	0.87	0.63	0.24
A 2	1.09	0.47	0.37	0.43	0.25	0.13
A 3	0.04	0.03	0.08	0.15	0.0	0.28
A 4	0.0	0.0	0.05	0.05	0.23	0.28
A 5	0.0	0.03	0.05	0.10	0.0	0.0
A 6	0.04	0.0	0.07	0.12	0.0	0.0
A 7	0.0	0.0	0.00	0.19	0.0	0.0
A 8	0.0	0.0	0.00	0.04	0.0	0.0
A 9	0.0	0.0	0.00	0.08	0.0	0.28
A 10	0.09	0.01	0.03	0.09	0.0	0.0
A 11	0.09	0.0	0.03	0.11	0.0	0.0
A 12	0.01	0.0	0.05	0.06	0.0	0.0
A 13	0.09	0.0	0.04	0.06	0.0	0.0
A 14	0.09	0.0	0.06	0.07	0.0	0.0
A 15	0.01	0.0	0.03	0.03	0.0	0.0
A 16	0.01	0.0	0.03	0.03	0.0	0.0
A 17	0.01	0.0	0.03	0.05	0.0	0.0
A 18	0.0	0.0	0.01	0.06	0.0	0.0
A 19	0.0	0.0	0.02	0.06	0.0	0.0
A 20	0.0	0.0	0.01	0.03	0.0	0.0
A 21	0.03	0.10	0.06	0.03	0.0	0.07
A 22	0.03	0.0	0.01	0.06	0.0	0.0
A 23	0.0	0.08	0.04	0.0	0.23	0.07
A 24	0.01	0.0	0.05	0.05	0.0	0.0
A 25	0.0	0.0	0.03	0.04	0.0	0.28
A 26	0.02	0.03	0.07	0.04	0.0	0.0
A 27	0.0	0.0	0.0	0.05	0.0	0.0
A 28	0.0	0.0	0.0	0.04	0.0	0.0
A 29	0.0	0.0	0.0	0.07	0.0	0.0
A 30	0.0	0.0	0.05	0.04	0.0	0.0
A 31	0.0	0.0	0.02	0.06	0.0	0.28
A 32	0.0	0.0	0.0	0.04	0.0	0.0
A 33	0.0	0.0	0.05	0.06	0.0	0.14
A 34	0.0	0.0	0.0	0.04	0.0	0.0
A 35	0.0	0.0	0.0	0.01	0.0	0.0

GROUP SUMMARY REP BY STAGE/GRADE

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DTY/ TASK	STG7E1-3	STG7E4	STG7E5	STG7E6	STG7E7	STG7E8
A 36	0.0	0.0	0.0	0.04	0.0	0.0
A 37	0.0	0.0	0.00	0.06	0.0	0.0
A 38	0.07	0.0	0.05	0.0	0.0	0.0
A 39	0.0	0.0	0.08	0.04	0.0	0.0
A 40	0.0	0.0	0.04	0.0	0.23	0.0
A 41	0.0	0.0	0.0	0.0	0.0	0.0
A 42	0.0	0.0	0.0	0.04	0.0	0.0
A 43	0.0	0.0	0.02	0.04	0.0	0.0
A 44	0.0	0.0	0.0	0.0	0.0	0.0
A 45	0.0	0.0	0.0	0.0	0.0	0.0
A 46	0.0	0.0	0.0	0.04	0.0	0.0
A 47	0.0	0.0	0.02	0.0	0.0	0.0
A 48	0.0	0.0	0.02	0.04	0.0	0.0
A 49	0.0	0.0	0.0	0.0	0.0	0.0
A 50	0.0	0.0	0.0	0.04	0.0	0.0
A 51	0.0	0.0	0.02	0.0	0.0	0.0
A 52	0.0	0.0	0.02	0.0	0.0	0.0
A 53	0.0	0.0	0.0	0.0	0.0	0.0
A 54	0.0	0.0	0.0	0.0	0.0	0.0
A 55	0.0	0.0	0.0	0.0	0.0	0.0
A 56	0.0	0.0	0.0	0.0	0.0	0.0
A 57	0.0	0.0	0.0	0.0	0.0	0.0
A 58	0.0	0.0	0.0	0.0	0.0	0.0
A 59	0.0	0.0	0.0	0.0	0.0	0.0
A 60	0.0	0.0	0.0	0.0	0.0	0.0
A 61	0.0	0.0	0.0	0.0	0.0	0.0
A 62	0.0	0.0	0.0	0.0	0.0	0.0
A 63	0.0	0.0	0.0	0.0	0.0	0.0
A 64	0.0	0.05	0.01	0.01	0.0	0.0
A 65	0.0	0.05	0.01	0.01	0.0	0.0
A 66	0.0	0.0	0.01	0.0	0.0	0.0
A 67	0.0	0.0	0.01	0.0	0.0	0.0
A 68	0.0	0.0	0.01	0.0	0.0	0.0
A 69	0.0	0.05	0.01	0.01	0.0	0.0
A 70	0.0	0.05	0.01	0.01	0.0	0.0
A 71	0.03	0.0	0.01	0.0	0.0	0.0
A 72	0.03	0.0	0.01	0.0	0.0	0.0
A 73	0.03	0.0	0.03	0.03	0.0	0.0
A 74	0.03	0.0	0.01	0.03	0.0	0.0
A 75	0.03	0.0	0.01	0.03	0.0	0.0
A 76	0.03	0.0	0.01	0.03	0.0	0.0
A 77	0.0	0.0	0.0	0.03	0.0	0.0
A 78	0.0	0.0	0.0	0.03	0.0	0.0

GROUP SUMMARY REP BY STAGE/GRADE

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DTY/ TASK	S67E1-3	STG67E4	STG67E5	STG67E6	STG67E7	STG67E8
A 79	0.0	0.0	0.0	0.03	0.0	0.0
A 80	0.0	0.0	0.0	0.03	0.0	0.0
A 81	0.0	0.0	0.0	0.03	0.0	0.0
A 82	0.0	0.0	0.0	0.0	0.0	0.0
A 83	0.0	0.0	0.0	0.0	0.0	0.0
A 84	0.0	0.0	0.0	0.0	0.0	0.0
A 85	0.0	0.0	0.0	0.0	0.0	0.0
A 86	0.0	0.0	0.0	0.0	0.0	0.0
A 87	0.0	0.0	0.0	0.0	0.0	0.0
A 88	0.0	0.0	0.0	0.0	0.0	0.0
A 89	0.0	0.0	0.01	0.0	0.0	0.0
A 90	0.0	0.0	0.01	0.0	0.0	0.0
A 91	0.0	0.0	0.01	0.0	0.0	0.0
A 92	0.0	0.0	0.01	0.0	0.0	0.0
A 93	0.0	0.0	0.01	0.0	0.0	0.0
A 94	0.0	0.0	0.0	0.0	0.0	0.0
A 95	0.0	0.0	0.0	0.0	0.0	0.0
A 96	0.0	0.0	0.0	0.0	0.0	0.0
A 97	0.0	0.0	0.0	0.0	0.0	0.0
A 98	0.0	0.0	0.01	0.0	0.0	0.0
A 99	0.0	0.0	0.01	0.0	0.0	0.0
A100	0.0	0.0	0.01	0.0	0.0	0.0
A101	0.0	0.0	0.01	0.0	0.0	0.0
A102	0.04	0.05	0.17	0.04	0.06	0.12
A103	0.27	0.19	0.31	0.04	0.06	0.06
A104	0.28	0.08	0.31	0.04	0.06	0.06
A105	0.37	0.20	0.35	0.08	0.06	0.06
A106	0.88	0.37	0.70	0.17	0.17	0.06
A107	0.31	0.20	0.34	0.04	0.04	0.06
A108	0.0	0.0	0.0	0.0	0.0	0.0
A109	0.0	0.0	0.0	0.0	0.0	0.0
A110	0.0	0.0	0.0	0.0	0.0	0.0
A111	0.0	0.0	0.0	0.0	0.0	0.0
A112	0.0	0.0	0.0	0.0	0.0	0.0
A113	0.0	0.0	0.0	0.0	0.0	0.0
A114	0.0	0.0	0.0	0.0	0.0	0.0
A115	0.0	0.0	0.0	0.0	0.0	0.0
A116	0.0	0.0	0.0	0.0	0.0	0.0
A117	0.0	0.0	0.0	0.0	0.0	0.0
A118	0.0	0.0	0.0	0.0	0.0	0.0
A119	0.0	0.0	0.0	0.0	0.0	0.0
A120	0.0	0.0	0.0	0.0	0.0	0.0

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DTY/ TASK	S67E1-3	STG67E4	STG67E5	STG67E6	S 77E7	STG67E8
A121	0.0	0.0	0.0	0.0	0.0	0.0
A122	0.0	0.0	0.0	0.0	0.0	0.0
A123	0.0	0.0	0.0	0.0	0.0	0.0
A124	0.0	0.0	0.0	0.0	0.0	0.0
A125	0.0	0.0	0.0	0.0	0.0	0.0
A126	0.0	0.0	0.0	0.0	0.0	0.0
A127	0.0	0.0	0.0	0.0	0.0	0.0
A128	0.03	0.0	0.09	0.04	0.0	0.40
A129	0.0	0.0	0.0	0.0	0.0	0.0
A130	0.0	0.0	0.0	0.01	0.0	0.29
A131	0.0	0.0	0.02	0.03	0.0	0.0
A132	0.0	0.07	0.0	0.0	0.0	0.0
A133	0.0	0.0	0.0	0.0	0.0	0.0
A134	0.0	0.0	0.01	0.0	0.0	0.06
A135	0.0	0.0	0.0	0.06	0.0	0.0
A136	0.08	0.07	0.08	0.08	0.0	0.28
A137	0.56	0.67	0.24	0.23	0.24	1.01
A138	0.24	0.03	0.10	0.0	0.0	0.07
A139	0.09	0.10	0.0	0.0	0.0	0.25
A140	0.06	0.0	0.05	0.13	0.09	0.11
B 1	0.16	0.12	0.31	0.21	0.50	0.24
B 2	3.47	2.45	1.95	2.65	1.41	1.04
B 3	2.16	0.93	0.78	0.76	0.36	0.0
B 4	3.05	2.09	1.96	2.21	1.61	1.12
B 5	0.28	0.58	0.68	0.47	0.83	0.29
B 6	0.67	0.64	0.45	0.28	0.69	0.0
B 7	0.64	0.51	0.61	0.17	0.60	0.42
B 8	0.57	0.67	0.59	0.70	0.44	0.40
B 9	1.43	1.58	1.03	1.02	1.01	0.07
B 10	1.05	0.62	0.47	0.43	0.32	0.07
B 11	1.61	1.95	1.56	1.86	1.88	1.70
B 12	0.21	0.49	0.54	0.31	0.39	0.43
B 13	0.35	0.37	0.37	0.03	0.20	0.0
B 14	0.79	0.41	0.32	0.03	0.0	0.0
B 15	0.44	0.47	0.73	0.54	0.32	0.28
B 16	0.36	0.54	0.28	0.31	0.36	0.54
B 17	0.04	0.03	0.05	0.09	0.04	0.14
B 18	0.10	0.0	0.12	0.16	0.08	0.0
B 19	0.06	0.04	0.02	0.0	0.0	0.0
B 20	0.03	0.04	0.12	0.0	0.10	0.0
B 21	0.0	0.0	0.01	0.0	0.0	0.0
C 1	0.80	1.12	1.01	1.10	0.84	1.22
C 2	0.78	0.95	1.05	1.00	0.89	0.95

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DTY/ TASK	S67E1-3	STG67E4	STG67E5	STG67E6	S7C67E7	STG67E8
C 3	0.78	1.04	1.36	0.90	1.45	0.79
C 4	2.57	2.67	2.34	2.46	2.43	2.53
C 5	3.46	2.68	2.34	2.15	2.09	1.74
C 6	2.90	2.56	2.02	1.85	1.85	1.01
C 7	2.67	2.45	1.86	1.41	1.20	0.78
C 8	3.20	2.51	2.29	2.38	2.10	2.56
C 9	2.20	2.66	2.14	2.16	1.99	1.92
C 10	1.80	2.64	2.29	2.26	2.24	2.88
C 11	1.30	1.65	1.58	1.32	1.58	0.70
C 12	2.12	1.82	1.84	1.49	1.48	1.00
C 13	1.39	1.33	1.79	1.44	1.47	0.81
C 14	1.42	1.17	1.39	1.33	1.28	0.66
C 15	2.03	1.66	1.59	1.35	1.23	0.33
C 16	0.48	0.73	0.91	1.02	0.85	0.45
C 17	0.28	0.91	0.89	0.81	0.80	0.45
C 18	1.42	1.33	1.83	1.36	1.41	0.70
C 19	2.20	1.62	1.70	1.20	0.93	0.65
C 20	1.59	2.17	1.70	1.66	1.11	0.98
C 21	1.96	2.10	1.92	1.65	1.63	0.85
C 22	0.13	0.37	0.44	0.35	0.50	1.01
C 23	0.08	0.30	0.46	0.29	0.50	0.79
C 24	0.10	0.26	0.55	0.37	0.64	1.94
C 25	0.0	0.11	0.19	0.18	0.42	1.36
C 26	0.0	0.10	0.35	0.28	0.57	0.40
C 27	0.05	0.15	0.58	0.13	0.46	0.0
C 28	0.66	0.23	0.58	0.76	0.37	1.33
C 29	2.28	2.58	1.99	2.01	2.22	1.42
C 30	1.34	0.93	0.62	1.04	0.49	0.51
C 31	0.56	0.38	0.40	0.34	0.45	0.37
C 32	1.44	1.13	1.04	1.08	1.29	0.98
C 33	1.58	0.98	1.29	1.00	1.22	1.15
C 34	0.61	0.51	0.41	0.36	1.10	0.51
C 35	1.24	0.88	1.19	0.79	1.40	1.15
C 36	1.70	2.26	2.09	2.53	2.38	2.91
C 37	0.53	1.29	1.29	1.41	2.07	2.09
C 38	0.24	0.08	0.26	0.16	0.06	0.0
C 39	1.73	1.27	1.12	1.24	0.95	1.01
C 40	0.30	0.37	0.38	0.19	0.19	0.0
C 41	0.37	0.25	0.26	0.17	0.40	0.0
C 42	0.28	0.38	0.31	0.25	0.40	0.0
C 43	0.22	0.15	0.25	0.17	0.31	0.0
C 44	0.29	0.42	0.36	0.26	0.38	0.0

GROUP SUMMARY REP BY STAGE/GRADE

DTY/ TASK	STG67E1-3	STG67E4	STG67E5	STG67E6	STG67E7	STG67E8
C 45	1.29	1.97	2.02	2.18	1.83	3.08
C 46	0.05	0.07	0.17	0.41	0.25	0.49
C 47	3.17	3.04	2.76	2.86	2.81	2.78
C 48	0.94	1.58	1.15	1.15	0.93	1.27
C 49	0.30	0.05	0.22	0.22	0.50	0.13
C 50	0.0	0.16	0.34	0.53	0.65	0.88
C 51	0.22	0.14	0.13	0.27	0.68	0.67
C 52	0.0	0.14	0.14	0.25	0.19	0.60
C 53	0.0	0.0	0.14	0.32	0.63	0.67
C 54	0.0	0.0	0.06	0.38	0.37	0.67
C 55	0.0	0.07	0.14	0.20	0.30	0.74
C 56	0.0	0.0	0.07	0.21	0.31	0.74
C 57	0.0	0.0	0.13	0.47	0.71	0.81
C 58	0.0	0.0	0.15	0.35	0.67	0.67
C 59	0.0	0.0	0.04	0.11	0.09	0.67
C 60	0.66	0.80	0.71	0.86	0.77	1.17
C 61	0.78	0.83	0.89	0.93	0.71	1.11
C 62	1.00	0.37	0.57	0.14	0.12	0.0
C 63	1.02	1.75	1.56	1.38	1.36	1.16
C 64	0.53	0.77	0.50	0.51	0.17	0.57
C 65	0.81	1.68	1.81	2.26	1.25	3.24
C 66	0.14	1.31	0.78	0.72	0.47	0.91
C 67	0.57	0.44	0.68	0.61	0.69	0.54
C 68	0.69	1.08	1.32	1.02	1.55	0.75
C 69	0.98	0.81	0.78	1.14	1.47	0.93
C 70	1.34	1.65	1.66	1.55	1.89	0.97
C 71	1.82	2.06	1.80	1.93	1.73	1.47
C 72	0.49	0.64	1.09	0.99	1.28	1.19
C 73	0.19	0.89	1.01	1.62	1.66	3.07
C 74	0.04	0.76	1.01	2.37	2.71	3.12
C 75	0.78	1.80	1.77	2.49	2.69	2.67
C 76	0.25	1.20	1.79	2.20	2.77	3.00
C 77	0.0	0.03	0.13	0.08	0.31	0.28
C 78	0.11	0.26	0.14	0.07	0.10	0.19
D 1	0.04	0.10	0.07	0.06	0.10	0.0
D 2	0.0	0.0	0.0	0.0	0.0	0.0
D 3	0.0	0.21	0.01	0.04	0.0	0.0
D 4	0.0	0.34	0.07	0.04	0.0	0.0
D 5	0.07	0.0	0.0	0.05	0.0	0.0
D 6	0.0	0.0	0.0	0.0	0.0	0.0
D 7	0.07	0.29	0.0	0.0	0.0	0.0
D 8	0.30	0.0	0.11	0.0	0.0	0.0
D 9	0.14	0.0	0.0	0.0	0.0	0.0

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DTY/ TASK	S87E1-3	STG87E4	STG67E5	STG67E6	S77E7	STG67E8
D 10	0.26	0.17	0.09	0.17	0.0	0.07
D 11	0.17	0.0	0.13	0.04	0.10	0.42
D 12	0.04	0.14	0.05	0.0	0.17	0.42
D 13	0.07	0.0	0.0	0.0	0.0	0.0
D 14	0.0	0.0	0.0	0.0	0.0	0.0
D 15	0.0	0.0	0.0	0.0	0.0	0.0
D 16	0.08	0.0	0.00	0.0	0.0	0.0
D 17	0.05	0.05	0.0	0.10	0.0	0.17
D 18	0.0	0.0	0.0	0.0	0.0	0.0
D 19	0.0	0.05	0.0	0.0	0.0	0.0
D 20	0.0	0.0	0.02	0.0	0.0	0.35
D 21	0.09	0.0	0.06	0.07	0.0	0.07
D 22	0.18	0.0	0.07	0.12	0.0	0.07
D 23	0.0	0.0	0.13	0.15	0.0	0.41
D 24	0.07	0.19	0.03	0.0	0.0	0.0
D 25	0.0	0.14	0.0	0.0	0.0	0.0
D 26	0.07	0.05	0.04	0.0	0.0	0.0
D 27	0.07	0.0	0.0	0.0	0.0	0.0
D 28	0.26	0.0	0.0	0.0	0.0	0.0
D 29	0.0	0.0	0.0	0.0	0.0	0.0
D 30	0.0	0.0	0.0	0.0	0.0	0.0
D 31	0.0	0.0	0.0	0.0	0.0	0.0
E 1	0.0	0.0	0.01	0.0	0.0	0.0
E 2	0.0	0.0	0.00	0.0	0.0	0.07
E 3	0.0	0.14	0.03	0.0	0.0	0.0
E 4	0.0	0.0	0.02	0.04	0.0	0.15
E 5	0.0	0.0	0.0	0.04	0.0	0.0
E 6	0.0	0.0	0.00	0.0	0.0	0.0
E 7	0.0	0.0	0.00	0.0	0.0	0.0
E 8	0.19	0.0	0.01	0.04	0.0	0.0
E 9	0.07	0.0	0.01	0.04	0.0	0.0
E 10	0.07	0.0	0.0	0.05	0.0	0.0
E 11	0.0	0.0	0.0	0.05	0.0	0.0
E 12	0.0	0.0	0.01	0.04	0.0	0.0
E 13	0.0	0.0	0.0	0.15	0.0	0.0
E 14	0.0	0.0	0.01	0.05	0.0	0.0
E 15	0.0	0.0	0.0	0.16	0.0	0.0
E 16	0.0	0.0	0.0	0.0	0.0	0.0
E 17	0.0	0.0	0.01	0.0	0.0	0.0
E 18	0.0	0.0	0.00	0.0	0.0	0.0
E 19	0.0	0.0	0.00	0.0	0.0	0.0
E 20	0.0	0.0	0.01	0.0	0.0	0.15

GROUP SUMMARY REP BY STAGE/GRADE

DTY/ TASK	S67E1-3	STG67E4	STG67E5	STG67E6	STG67E7	STG67E8
E 21	0.0	0.0	0.0	0.0	0.0	0.0
E 22	0.03	0.0	0.01	0.0	0.20	0.0
E 23	0.0	0.0	0.00	0.0	0.0	0.0
E 24	0.0	0.0	0.0	0.0	0.0	0.0
E 25	0.0	0.0	0.00	0.0	0.08	0.0
E 26	0.0	0.11	0.01	0.0	0.08	0.0
E 27	0.0	0.0	0.01	0.0	0.0	0.0
F 1	0.09	0.0	0.01	0.0	0.0	0.0
F 2	0.11	0.0	0.01	0.0	0.0	0.0
F 3	0.22	0.0	0.06	0.0	0.0	0.0
F 4	0.0	0.0	0.0	0.03	0.0	0.0
F 5	0.0	0.0	0.0	0.0	0.0	0.0
F 6	0.07	0.0	0.0	0.0	0.0	0.0
F 7	0.11	0.02	0.02	0.0	0.0	0.0
F 8	0.16	0.02	0.03	0.0	0.0	0.0
F 9	0.0	0.02	0.04	0.0	0.0	0.0
F 10	0.05	0.02	0.06	0.0	0.02	0.0
F 11	0.04	0.04	0.03	0.0	0.02	0.0
F 12	0.18	0.02	0.06	0.05	0.02	0.0
F 13	0.07	0.07	0.08	0.09	0.02	0.0
G 1	0.0	0.0	0.0	0.11	0.12	0.0
G 2	0.0	0.0	0.02	0.20	0.12	0.0
G 3	0.12	0.0	0.03	0.0	0.0	0.0
G 4	0.0	0.0	0.03	0.05	0.20	0.0
G 5	0.0	0.0	0.10	0.0	0.24	0.0
G 6	0.0	0.0	0.02	0.0	0.0	0.0
G 7	0.0	0.0	0.0	0.0	0.0	0.0
G 8	0.0	0.0	0.0	0.0	0.0	0.0
G 9	0.0	0.0	0.00	0.0	0.0	0.0
G 10	0.0	0.0	0.0	0.0	0.12	0.92
G 11	0.0	0.0	0.00	0.05	0.0	0.44
G 12	0.11	0.0	0.04	0.0	0.0	0.0
G 13	0.05	0.0	0.03	0.0	0.08	0.0
G 14	0.0	0.0	0.0	0.0	0.0	0.0
G 15	0.0	0.0	0.0	0.0	0.0	0.07
G 16	0.0	0.0	0.0	0.0	0.0	0.0
G 17	0.0	0.0	0.02	0.0	0.12	0.35
G 18	0.0	0.0	0.02	0.12	0.12	0.0
G 19	0.0	0.0	0.0	0.05	0.12	0.0
G 20	0.0	0.0	0.04	0.12	0.0	0.0
G 21	0.0	0.08	0.0	0.04	0.24	0.0

DUTY SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK.
OF 40 GROUP SUMMARY REPORT FOR STAGE 67 BY GRADE

8000000

THE FOLLOWING GR'S ARE INCLUDED IN THIS REPORT:

S67E1-3	DESCRIPTION FOR OF40 STAGE 67 RANK=E1-3	. MEMBERS= 22.
STG67E4	DESCRIPTION FOR OF40 STAGE 67 RANK=E4	. MEMBERS= 27.
STG67E5	DESCRIPTION FOR OF40 STAGE 67 RANK=E5	. MEMBERS= 27.
STG67E6	DESCRIPTION FOR OF40 STAGE 67 RANK=E6	. MEMBERS= 27.
STG67E7	DESCRIPTION FOR OF40 STAGE 67 RANK=E7	. MEMBERS= 14.
STG67E8	DESCRIPTION FOR OF40 STAGE 67 RANK=E8	. MEMBERS= 7.

DTY/
TASK

DUTY/TASK TITLE

	COMPUTER ROOM OPERATIONS									
	PRODUCTION CONTROL AND ANALYSIS ACTIVITIES									
	APPLICATIONS PROGRAMMER ACTIVITIES									
	SYSTEM PROGRAMMER (OPERATING SYSTEM) ACTIVITIES									
	SYSTEM PROGRAMMER (TELEPROCESSING) ACTIVITIES									
A	7	4	5	2	5					
B	17	15	13	12	11	7				
C	71	79	80	80	84	84				
D	2	2	1	1	0	2				
E	0	0	0	1	0	0				
F	1	0	0	0	0	0				
G	0	0	0	1	1	2				

DTY/ TASK	DUTY/TASK TITLE	3	4	5	6	7	8
A106	KEYPUNCH CARDS						
A107	UNLOAD CARDS FROM KEYPUNCH	1	0	1	0	0	0
A108	WIRE COLLATOR BOARD	0	0	0	0	0	0
A109	INSERT BOARD INTO COLLATOR	0	0	0	0	0	0
A110	LOAD CARDS INTO COLLATOR	0	0	0	0	0	0
A111	START COLLATOR	0	0	0	0	0	0
A112	MONITOR COLLATOR OPERATION	0	0	0	0	0	0
A113	UNLOAD CARDS FROM COLLATOR	0	0	0	0	0	0
A114	REMOVE BOARD FROM COLLATOR	0	0	0	0	0	0
A115	SET PAPER TAPE READER CONTROLS	0	0	0	0	0	0
A116	LOAD TAPE INTO PAPER TAPE READER	0	0	0	0	0	0
A117	ADJUST PAPER TAPE READER CONTROLS	0	0	0	0	0	0
A118	START PAPER TAPE READER	0	0	0	0	0	0
A119	MONITOR PAPER TAPE READER OPERATION	0	0	0	0	0	0
A120	REMOVE TAPE FROM PAPER TAPE READER	0	0	0	0	0	0
A121	SET PAGE READER OR OPTICAL CHARACTER READER (OCR) CONTROLS	0	0	0	0	0	0
A122	LOAD DOCUMENTS INTO PAGE READER OR OCR	0	0	0	0	0	0
A123	ADJUST PAGE READER OR OCR CONTROLS	0	0	0	0	0	0
A124	START PAGE READER OR OCR	0	0	0	0	0	0
A125	MONITOR PAGE READER OR OCR OPERATION	0	0	0	0	0	0
A126	REMOVE DOCUMENTS FROM PAGE READER OR OCR	0	0	0	0	0	0
A127	CONVERT FROM COMMERCIAL POWER TO GENERATOR POWER	0	0	0	0	0	0
A128	INITIAL PROGRAM LOAD (IPL) SYSTEM	0	0	0	0	0	0
A129	INITIAL MONITOR LOAD (IML) CONTROLLERS	0	0	0	0	0	0
A130	PERFORM COMPUTER ROOM EMERGENCY OPERATIONS	0	0	0	0	0	0
A131	POWER UP PERIPHERALS	0	0	0	0	0	0
A132	COORDINATE NETWORK JOB ENTRY (NJE) NETWORK	0	0	0	0	0	0
A133	PERFORM HASPCOM PROCEDURES USING EXTERNAL WRITER	0	0	0	0	0	0
A134	DETERMINE PERIPHERALS DEVICE AVAILABILITY	0	0	0	0	0	0
A135	MAINTAIN COMPUTER ROOM LOG	0	0	0	0	0	0
A136	PROVIDE ASSISTANCE TO SYSTEMS PERSONNEL OR CUSTOMER ENGINEERS (CE) IN RESOLUTION OF SYSTEM PROBLEMS	0	0	0	0	0	0
A137	MONITOR SYSTEM (OMEGAMON, COM-PILE, RUCONE)	1	1	0	0	0	1
A138	INITIALIZE VOLUME (TAPE OR DISK)	0	0	0	0	0	0
A139	ASSIGN SYSTEM RESOURCES TO BALANCE WORKLOAD	0	0	0	0	0	0
A140	DIRECT COMPUTER ROOM PERSONNEL IN RESPONSE TO SYSTEM COMMANDS OR MESSAGES	0	0	0	0	0	0
B 1	GENERATE PRODUCTION JOB REQUEST	0	0	0	0	0	0
B 2	SUBMIT JOB FOR PROCESSING	3	2	2	3	1	1

DTY/ TASK	DUTY/TASK TITLE	S	S	S	S	S	S	S	S
B 3	DISTRIBUTE INPUT OR OUTPUT	2	1	1	1	0	0	0	0
B 4	VERIFY SUCCESSFUL JOB EXECUTION BY COMPLETION CODES ON DEALLOCATIONS	3	2	2	2	2	1	1	1
B 5	OPTIMIZE PRODUCTION JOB PACKAGE AS REQUIRED	0	1	1	0	1	0	0	0
B 6	SCREEN PRODUCTION JOB REQUEST FOR ACCURACY AND COMPLETENESS	1	1	0	0	1	0	0	0
B 7	REVIEW ENTIRE PRODUCTION JOB DOCUMENTATION PACKAGE PRIOR TO EXECUTION	1	1	1	0	1	0	0	0
B 8	PREPARE OR SETUP JOB FOR PRODUCTION IN ACCORDANCE WITH (IAW) JOB DOCUMENTATION	1	1	1	1	0	0	0	0
B 9	MONITOR JOB DURING EXECUTION	1	2	1	1	1	1	0	0
B 10	MONITOR JOB FLOW (SYSTEM STATUS)	1	1	0	0	0	0	0	0
B 11	TROUBLESHOOT PRODUCTION ABNORMAL END OF JOB (ABE:DS) OR JOB DOCUMENTATION PROBLEMS	2	2	2	2	2	2	2	2
B 12	PERFORM QUALITY CONTROL (QC) CHECKS ON OUTPUT	0	0	1	0	0	0	0	0
B 13	PREPARE OUTPUT FOR SUPPLEMENTAL OPERATIONS (INTERPRETING, BOOKING AND BINDING, BUZZING IAW JOB DOCUMENTATION)	0	0	0	0	0	0	0	0
B 14	ORGANIZE INPUT/OUTPUT FOR DISTRIBUTION	1	0	0	0	0	0	0	0
B 15	MAINTAIN PRODUCTION JOB DOCUMENTATION FILE	0	0	1	1	0	0	0	0
B 16	ANALYZE PRODUCTION JOB FOR OPTIMIZATION	0	1	0	0	0	0	1	1
B 17	CONDUCT ANNUAL AUDIT OF PRODUCTION JOBS	0	0	0	0	0	0	0	0
B 18	SCHEDULE PRODUCTION JOBS	0	0	0	0	0	0	0	0
B 19	DESIGNATE CLASSIFIED MATERIAL FOR DESTRUCTION	0	0	0	0	0	0	0	0
B 20	DESIGNATE CLASSIFIED OR PRIVACY ACT MATERIAL FOR DESTRUCTION	0	0	0	0	0	0	0	0
B 21	SECURE SITE OR EQUIPMENT FOR CLASSIFIED PROCESSING	0	0	0	0	0	0	0	0
C 1	EVALUATE CUSTOMER'S REQUEST TO DETERMINE PROGRAM REQUIREMENT	1	1	1	1	1	1	1	1
C 2	DRAW LAYOUT OF PROGRAM INPUTS AND OUTPUTS	1	1	1	1	1	1	1	1
C 3	WRITE PROGRAM FLOWCHART	1	1	1	1	1	1	1	1
C 4	CODE (WRITE) SOURCE PROGRAM	3	3	2	2	2	2	3	3
C 5	KEY IN (CODE) PROGRAM DATA	3	3	2	2	2	2	2	2
C 6	WRITE COMPILER JOB CONTROL LANGUAGE (JCL)	3	3	2	2	2	2	2	2
C 7	KEY IN COMPILER JCL DATA	3	2	2	1	1	1	1	1
C 8	COMPILE OR ASSEMBLE PROGRAM	3	3	2	2	2	2	3	3
C 9	WRITE PROGRAM TEST JCL	2	3	2	2	2	2	2	2
C 10	TEST APPLICATIONS PROGRAM	2	3	2	2	2	2	3	3
C 11	WRITE PRODUCTION PROCEDURE	1	2	2	1	2	1	2	1
C 12	TEST PRODUCTION PROCEDURE	2	2	2	2	1	1	1	1
C 13	WRITE OR UPDATE PRODUCTION JOB DOCUMENTATION	1	1	2	1	2	1	1	1

DTY/ TASK	DUTY/TASK TITLE	S 6 7 1 -3	S T G 6 7 E 4	S T G 6 7 E 5	S T G 6 7 E 6	S T G 6 7 E 7	S T G 6 7 E 8
D 5	PRODUCE STAGE II JOB STREAM	0	0	0	0	0	0
D 6	EXECUTE STAGE II JOB STREAM	0	0	0	0	0	0
D 7	LINK JES 2 MODULES	0	0	0	0	0	0
D 8	UPDATE SYSTEM PARAMETERS (SYS1.PARMLIB MEMBERS)	0	0	0	0	0	0
D 9	PROCESS INSTALLATION VERIFICATION PROCEDURES (IVP)	0	0	0	0	0	0
D 10	UPDATE SYSTEM CATALOG(S)	0	0	0	0	0	0
D 11	CREATE OR TAKE SYSTEMS BACKUPS	0	0	0	0	0	0
D 12	CREATE OR MAINTAIN SYSTEM BACKUP PROCEDURES	0	0	0	0	0	0
D 13	BUILD VIRTUAL MACHINE (VM) DIRECTORY	0	0	0	0	0	0
D 14	BUILD VM NUCLEUS	0	0	0	0	0	0
D 15	INSTALL VIRTUAL MACHINE (VM) OPTIONS (SUCH AS REMOTE POOLING COMMUNICATIONS SUBSYSTEM (RSCS) OR VIRTUAL MACHINE/PROGRAMMING EXTENSION (VM/PE)	0	0	0	0	0	0
D 16	TEST OR VERIFY OPERATING SYSTEM GENERATION	0	0	0	0	0	0
D 17	INSTALL PROPRIETARY SOFTWARE PRODUCTS & UPDATES	0	0	0	0	0	0
D 18	INSTALL VIRTUAL MACHINE (VM) OPERATING SYSTEM	0	0	0	0	0	0
D 19	INSTALL VM OPTIONS (SUCH AS RCSC OR VM PE)	0	0	0	0	0	0
D 20	CORRECT SYSGEN PROCESS	0	0	0	0	0	0
D 21	MAINTAIN SYSTEM TECHNICAL REFERENCE LIBRARY	0	0	0	0	0	0
D 22	WRITE OR UPDATE SYSTEMS PORTION OF INSTALLATION USERS GUIDE	0	0	0	0	0	0
D 23	PROVIDE TECHNICAL SUPPORT (VERBAL OR WRITTEN INSTRUCTIONS OR FORMAL CLASS) FOR ALL SYSTEM USERS	0	0	0	0	0	0
D 24	ANALYZE OPERATING SYSTEM PERFORMANCE	0	0	0	0	0	0
D 25	TUNE OPERATING SYSTEM	0	0	0	0	0	0
D 26	TROUBLESHOOT OPERATING SYSTEM FAILURE OR STOPPAGE	0	0	0	0	0	0
D 27	MODIFY OPERATING SYSTEM USING SYSTEM MIFICATION PROGRAM (SMP) FOR MVS OR USING CMS FOR VM	0	0	0	0	0	0
D 28	CODE AUTHORIZED USER ACCESS FILE	0	0	0	0	0	0
D 29	DEFINE FILE ACCESS USING TOP SECRET	0	0	0	0	0	0
D 30	ESTABLISH OR UPDATE INSTALLATION PROCESSING STANDARDS	0	0	0	0	0	0
D 31	COORDINATE SYSTEM CHANGES TO ENSURE ALTERNATE SITE COMPATIBILITY	0	0	0	0	0	0
E 1	RECEIVE TELECOMMUNICATION NETWORK	0	0	0	0	0	0
E 2	CERTIFY VENDOR SUPPORT CHANGES	0	0	0	0	0	0
E 3	IMPLEMENT SYSTEM CHANGE PACKAGES OR EMERGENCY URGENT CHANGE PACKAGE (EUCP)	0	0	0	0	0	0
E 4	LAYOUT TELEPROCESSING NETWORK SOFTWARE CONFIGURATION	0	0	0	0	0	0
E 5	LAYOUT TELEPROCESSING NETWORK HARDWARE CONFIGURATION	0	0	0	0	0	0

[illegible]

4066

DUTY SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK.
OF40 GROUP SUMMARY REPORT FOR STAGE 38 BY GRADE

00000008

THE FOLLOWING GROUPS ARE INCLUDED IN THIS REPORT:

STG38E1-3 DESCRIPTION FOR OF40 STAGE 38 RANKS E1-3

STG38E4 DESCRIPTION FOR OF40 STAGE 38 RANK=E4

STG38E5 DESCRIPTION FOR OF40 STAGE 38 RANK=E5

STG38E6 DESCRIPTION FOR OF40 STAGE 38 RANK=E6

MEMBERS= 15.
MEMBERS= 12.
MEMBERS= 12.
MEMBERS= 7.

DTY/ TASK	STG38E1-3	STG38E4	STG38E5	STG38E6
A	22.59	22.50	16.95	17.80
B	3.03	2.67	2.52	8.31
C	58.79	52.90	59.77	48.24
D	4.55	1.51	3.70	1.95
E	0.66	1.76	1.34	0.09
F	8.33	14.17	12.03	14.29
G	1.17	4.81	3.59	9.19

GROUP SUMMARY REP BY STAGE/GRADE

TASK SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK.
OF40 GROUP SUMMARY REPORT FOR STAGE 38 BY GRADE

THE FOLLOWING MEMBERS ARE INCLUDED IN THIS REPORT:
STG38E1-3 DESCRIPTION FOR OF40 STAGE 38 RANKS E1-3
STG38E4 DESCRIPTION FOR OF40 STAGE 38 RANK=E4
STG38E5 DESCRIPTION FOR OF40 STAGE 38 RANK=E5
STG38E6 DESCRIPTION FOR OF40 STAGE 38 RANK=E6

.MEMBERS= 15.
.MEMBERS= 12.
.MEMBERS= 12.
.MEMBERS= 7.

DY/	TASK	S38E1-3	STG38E4	STG38E5	STG38E6
A 1	3.35	3.27	1.64	3.54	
A 2	2.96	2.01	1.33	3.14	
A 3	0.10	0.43	0.65	0.36	
A 4	0.10	0.39	0.50	0.36	
A 5	0.10	0.12	0.55	0.41	
A 6	0.10	0.79	0.65	0.36	
A 7	0.30	0.05	0.15	0.0	
A 8	0.30	0.05	0.03	0.0	
A 9	0.05	0.02	0.15	0.0	
A 10	0.0	0.02	0.0	0.0	
A 11	0.0	0.02	0.0	0.0	
A 12	0.0	0.02	0.0	0.0	
A 13	0.0	0.02	0.0	0.0	
A 14	0.0	0.02	0.0	0.0	
A 15	0.0	0.0	0.0	0.0	
A 16	0.13	0.0	0.0	0.0	
A 17	0.0	0.0	0.0	0.0	
A 18	0.28	0.0	0.22	0.11	
A 19	0.28	0.0	0.22	0.0	
A 20	0.30	0.0	0.0	0.0	
A 21	0.21	0.0	0.0	0.0	
A 22	0.12	0.0	0.22	0.0	
A 23	0.13	0.12	0.0	0.0	
A 24	0.0	0.13	0.23	0.0	
A 25	0.19	0.0	0.0	0.0	
A 26	0.13	0.65	0.47	0.0	
A 27	0.13	0.0	0.0	0.0	
A 28	0.13	0.07	0.0	0.0	
A 29	0.0	0.06	0.0	0.0	
A 30	0.13	0.66	0.0	0.10	
A 31	0.0	0.23	0.10	0.0	
A 32	0.0	0.0	0.0	0.0	
A 33	0.26	0.16	0.50	0.57	
A 34	0.0	0.0	0.0	0.0	
A 35	0.41	0.17	0.51	0.31	
A 36	0.16	0.17	0.51	0.0	

GROUP SUMMARY REP BY STAGE/GRADE

DTY/ TASK	ST038E1-3	ST038E4	ST038E5	ST038E6
A 37	0.51	0.17	0.51	0.39
A 38	0.92	1.08	0.64	0.29
A 39	2.09	1.25	1.01	0.99
A 40	0.75	0.77	0.80	0.29
A 41	0.0	0.0	0.0	0.0
A 42	0.0	0.0	0.0	0.0
A 43	0.13	0.0	0.0	0.0
A 44	0.23	0.0	0.0	0.0
A 45	0.0	0.0	0.0	0.0
A 46	0.13	0.0	0.0	0.0
A 47	0.0	0.0	0.0	0.0
A 48	0.0	0.0	0.0	0.0
A 49	0.0	0.0	0.18	0.0
A 50	0.43	0.0	0.0	0.0
A 51	0.0	0.0	0.0	0.0
A 52	0.0	0.36	0.0	0.0
A 53	0.0	0.0	0.0	0.0
A 54	0.0	0.0	0.0	0.0
A 55	0.0	0.0	0.0	0.0
A 56	0.0	0.0	0.0	0.0
A 57	0.0	0.0	0.0	0.0
A 58	0.0	0.0	0.0	0.0
A 59	0.0	0.0	0.0	0.0
A 60	0.0	0.0	0.0	0.0
A 61	0.0	0.0	0.0	0.0
A 62	0.0	0.0	0.0	0.0
A 63	0.0	0.0	0.0	0.0
A 64	0.0	0.22	0.0	0.0
A 65	0.0	0.18	0.0	0.0
A 66	0.0	0.22	0.0	0.0
A 67	0.0	0.18	0.0	0.20
A 68	0.0	0.15	0.0	0.13
A 69	0.0	0.24	0.0	0.13
A 70	0.0	0.22	0.0	0.0
A 71	0.0	0.02	0.0	0.0
A 72	0.0	0.02	0.0	0.0
A 73	0.0	0.02	0.0	0.0
A 74	0.0	0.02	0.0	0.0
A 75	0.0	0.02	0.0	0.0
A 76	0.0	0.02	0.0	0.0
A 77	0.0	0.02	0.0	0.0
A 78	0.0	0.02	0.0	0.0
A 79	0.0	0.02	0.0	0.0

GROUP SUMMARY REP BY STAGE/GRADE

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DTY/ TASK	S38E1-3	STQ38E4	STQ38E5	STQ38E6
A 80	0.0	0.02	0.0	0.0
A 81	0.0	0.02	0.0	0.0
A 82	0.0	0.0	0.0	0.0
A 83	0.0	0.0	0.0	0.0
A 84	0.0	0.0	0.0	0.0
A 85	0.0	0.0	0.0	0.0
A 86	0.0	0.0	0.0	0.0
A 87	0.0	0.0	0.0	0.0
A 88	0.0	0.0	0.0	0.0
A 89	0.0	0.0	0.0	0.0
A 90	0.0	0.0	0.0	0.0
A 91	0.0	0.0	0.0	0.0
A 92	0.0	0.0	0.0	0.0
A 93	0.0	0.0	0.0	0.0
A 94	0.0	0.0	0.0	0.0
A 95	0.0	0.0	0.0	0.0
A 96	0.0	0.0	0.0	0.0
A 97	0.0	0.0	0.0	0.0
A 98	0.0	0.0	0.0	0.0
A 99	0.0	0.0	0.0	0.0
A100	0.0	0.0	0.0	0.0
A101	0.0	0.0	0.0	0.0
A102	0.0	0.0	0.0	0.26
A103	0.0	0.02	0.0	0.0
A104	0.0	0.02	0.0	0.13
A105	0.0	0.02	0.0	0.0
A106	0.0	0.02	0.0	0.0
A107	0.0	0.02	0.0	0.0
A108	0.0	0.0	0.0	0.0
A109	0.0	0.0	0.0	0.0
A110	0.0	0.0	0.0	0.0
A111	0.0	0.0	0.0	0.0
A112	0.0	0.0	0.0	0.0
A113	0.0	0.0	0.0	0.0
A114	0.0	0.0	0.0	0.0
A115	0.0	0.07	0.0	0.0
A116	0.0	0.07	0.0	0.0
A117	0.0	0.07	0.0	0.0
A118	0.0	0.07	0.0	0.0
A119	0.0	0.07	0.0	0.0
A120	0.0	0.07	0.0	0.0
A121	0.0	0.0	0.0	0.0

GROUP SUMMARY REP BY STAGE/GRADE

QTY/ TAG	6708E1-3	6708E4	67038E5	67038E6
A122	0.0	0.0	0.0	0.0
A123	0.0	0.0	0.0	0.0
A124	0.0	0.0	0.0	0.0
A125	0.0	0.0	0.0	0.0
A126	0.0	0.0	0.0	0.0
A127	0.0	0.0	0.0	0.0
A128	2.20	2.04	2.43	1.99
A129	0.19	0.0	0.0	0.0
A130	0.0	0.0	0.29	0.0
A131	1.01	2.06	0.44	0.91
A132	0.0	0.0	0.0	0.0
A133	0.0	0.0	0.0	0.0
A134	0.05	0.16	0.0	0.33
A135	1.91	0.22	0.0	0.11
A136	0.20	0.45	0.35	0.47
A137	0.0	0.0	0.13	0.0
A138	1.39	1.65	1.12	1.05
A139	0.0	0.16	0.17	0.43
A140	0.0	0.24	0.26	0.41
B 1	0.12	0.0	0.0	0.0
B 2	0.63	0.64	0.44	1.04
B 3	0.25	0.19	0.29	0.11
B 4	0.80	0.18	0.78	0.76
B 5	0.0	0.33	0.28	0.47
B 6	0.21	0.0	0.0	0.83
B 7	0.0	0.0	0.0	0.10
B 8	0.0	0.0	0.0	0.15
B 9	0.40	0.52	0.0	0.85
B 10	0.21	0.0	0.0	0.44
B 11	1.11	0.19	0.38	1.63
B 12	0.0	0.37	0.26	0.92
B 13	0.10	0.0	0.0	0.0
B 14	0.0	0.24	0.07	0.0
B 15	0.0	0.0	0.0	0.48
B 16	0.0	0.15	0.0	0.20
B 17	0.0	0.0	0.0	0.0
B 18	0.0	0.0	0.0	0.33
B 19	0.0	0.0	0.0	0.0
B 20	0.0	0.07	0.0	0.0
B 21	0.0	0.0	0.0	0.0
C 1	0.54	0.66	0.78	1.33
C 2	0.65	1.19	1.06	0.55
C 3	2.18	1.40	2.23	0.72

GROUP SUMMARY REP BY STAGE/GRADE

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DTY/ TASK	S38E1-3	STG38E4	STG38E5	STG38E6
C 4	3.91	4.14	3.85	3.15
C 5	3.72	3.66	3.40	2.85
C 6	0.29	0.28	0.60	0.0
C 7	0.0	0.0	0.31	0.0
C 8	2.93	4.10	3.77	1.74
C 9	0.0	0.0	0.39	0.0
C 10	2.16	2.84	2.61	1.15
C 11	0.25	0.53	0.29	0.23
C 12	0.50	0.53	0.29	0.23
C 13	0.65	1.44	0.83	0.57
C 14	0.42	0.16	0.71	0.23
C 15	0.52	0.64	0.68	0.24
C 16	0.12	0.47	0.36	0.0
C 17	0.29	0.53	0.18	0.28
C 18	0.71	0.54	0.0	0.61
C 19	0.67	0.24	0.15	0.19
C 20	0.0	0.0	0.0	0.37
C 21	0.38	0.24	0.29	0.42
C 22	0.21	0.26	0.33	0.33
C 23	0.60	0.27	0.29	0.0
C 24	1.56	0.77	0.29	0.86
C 25	0.12	0.62	0.44	0.34
C 26	0.37	0.33	0.15	0.19
C 27	0.83	0.0	0.66	0.79
C 28	0.36	0.0	0.0	0.10
C 29	2.40	1.60	1.49	0.54
C 30	0.69	0.23	0.71	0.35
C 31	1.35	0.40	0.54	0.37
C 32	1.71	0.57	0.88	0.74
C 33	1.35	0.30	0.40	0.26
C 34	0.75	0.42	0.07	0.26
C 35	1.57	0.29	0.81	0.87
C 36	1.21	1.00	1.08	1.14
C 37	1.73	0.65	1.08	1.52
C 38	0.0	0.0	0.0	0.0
C 39	0.0	0.0	0.0	0.0
C 40	0.0	0.12	0.0	0.0
C 41	0.0	0.0	0.0	0.38
C 42	0.0	0.0	0.0	0.45
C 43	0.0	0.0	0.0	0.45
C 44	0.0	0.0	0.0	0.45
C 45	2.13	1.16	1.65	2.64

GROUP SUMMARY REP BY STAGE/GRADE

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DIY/ TASK	S38E1-3	STG38E4	STG38E5	STG38E6
C 46	0.16	0.0	0.0	0.47
C 47	2.67	3.54	2.91	3.04
C 48	2.25	2.04	1.82	1.97
C 49	0.0	0.0	0.18	0.0
C 50	0.51	0.27	0.20	0.36
C 51	0.52	0.43	0.0	0.09
C 52	0.90	0.31	0.25	0.24
C 53	0.12	0.0	0.19	0.09
C 54	0.0	0.0	0.0	0.09
C 55	0.0	0.0	0.0	0.0
C 56	0.0	0.0	0.0	0.0
C 57	0.0	0.0	0.0	0.0
C 58	0.0	0.0	0.0	0.0
C 59	0.0	0.0	0.0	0.0
C 60	0.51	0.16	0.15	0.22
C 61	0.72	0.30	0.15	0.37
C 62	0.0	0.0	0.0	0.0
C 63	1.16	0.24	0.59	0.51
C 64	0.0	0.0	0.26	0.0
C 65	2.76	2.77	2.41	1.57
C 66	0.44	1.28	1.34	0.0
C 67	1.00	0.74	0.91	1.10
C 68	0.0	0.16	0.20	0.34
C 69	0.09	0.52	0.03	0.29
C 70	0.23	0.24	0.29	0.0
C 71	0.0	0.07	0.09	0.0
C 72	0.77	0.62	1.66	1.43
C 73	0.65	1.25	3.20	1.35
C 74	0.61	0.78	2.31	1.85
C 75	1.78	2.02	3.36	2.32
C 76	0.98	2.43	3.38	1.86
C 77	0.0	0.0	0.0	0.0
C 78	0.10	0.13	0.07	0.0
D 1	0.0	0.0	0.38	0.0
D 2	0.0	0.0	0.16	0.0
D 3	0.0	0.0	0.16	0.0
D 4	0.22	0.0	0.0	0.0
D 5	0.13	0.0	0.0	0.0
D 6	0.13	0.0	0.0	0.0
D 7	0.13	0.0	0.0	0.0
D 8	0.13	0.0	0.16	0.0
D 9	0.13	0.0	0.0	0.0
D 10	0.13	0.0	0.0	0.0

GROUP SUMMARY REP BY STAGE/GRADE

DTY/ TASK	SUB1.3	STG3R24	STG3R5	STG3R6
D 11	0.63	0.0	0.25	0.20
D 12	0.26	0.0	0.0	0.29
D 13	0.0	0.0	0.0	0.0
D 14	0.09	0.0	0.0	0.0
D 15	0.0	0.0	0.0	0.0
D 16	0.17	0.0	0.16	0.0
D 17	0.0	0.0	0.0	0.09
D 18	0.11	0.0	0.0	0.0
D 19	0.13	0.0	0.0	0.0
D 20	0.0	0.0	0.0	0.09
D 21	0.21	0.0	0.29	0.0
D 22	0.44	0.36	0.42	0.09
D 23	0.64	0.74	0.30	0.79
D 24	0.26	0.16	0.16	0.09
D 25	0.11	0.0	0.16	0.0
D 26	0.47	0.24	0.63	0.09
D 27	0.0	0.0	0.16	0.0
D 28	0.0	0.0	0.0	0.0
D 29	0.0	0.0	0.16	0.0
D 30	0.0	0.0	0.16	0.10
D 31	0.0	0.0	0.0	0.10
E 1	0.0	0.19	0.0	0.0
E 2	0.0	0.05	0.0	0.0
E 3	0.0	0.25	0.17	0.09
E 4	0.0	0.11	0.16	0.0
E 5	0.0	0.0	0.16	0.0
E 6	0.0	0.0	0.0	0.0
E 7	0.0	0.0	0.16	0.0
E 8	0.33	0.0	0.53	0.0
E 9	0.12	0.0	0.0	0.0
E 10	0.0	0.0	0.16	0.0
E 11	0.0	0.0	0.0	0.0
E 12	0.0	0.13	0.0	0.0
E 13	0.0	0.0	0.0	0.0
E 14	0.0	0.0	0.0	0.0
E 15	0.0	0.0	0.0	0.0
E 16	0.0	0.0	0.0	0.0
E 17	0.0	0.16	0.0	0.0
E 18	0.0	0.19	0.0	0.0
E 19	0.0	0.0	0.0	0.0
E 20	0.0	0.19	0.0	0.0
E 21	0.0	0.0	0.0	0.0

GROUP SUMMARY REP BY STAGE/GRADE

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DTY/ TASK	S38E1-3	STG38E4	STG38E5	STG38E6
E 22	0.19	0.0	0.0	0.0
E 23	0.0	0.16	0.0	0.0
E 24	0.0	0.16	0.0	0.0
E 25	0.0	0.0	0.0	0.0
E 26	0.0	0.16	0.0	0.0
E 27	0.0	0.0	0.0	0.0
F 1	0.49	0.72	0.95	1.04
F 2	0.62	1.52	1.03	1.38
F 3	0.52	2.67	0.78	1.07
F 4	0.0	0.0	0.0	0.05
F 5	0.0	0.13	0.0	0.0
F 6	0.11	0.16	0.22	0.31
F 7	1.37	1.38	0.75	0.40
F 8	1.14	1.34	1.55	1.64
F 9	0.48	1.29	1.20	1.69
F 10	0.22	0.42	1.32	1.24
F 11	1.01	2.06	0.89	0.81
F 12	0.80	0.52	0.54	1.87
F 13	1.56	1.85	2.81	2.80
G 1	0.19	0.20	0.29	0.70
G 2	0.05	0.45	0.0	1.01
G 3	0.0	0.26	0.0	0.28
G 4	0.0	0.18	0.92	0.23
G 5	0.0	0.0	1.14	1.40
G 6	0.0	0.14	0.0	0.0
G 7	0.0	0.0	0.0	0.0
G 8	0.12	0.38	0.11	0.69
G 9	0.25	0.55	0.42	1.57
G 10	0.0	0.0	0.11	1.03
G 11	0.0	0.16	0.0	0.0
G 12	0.08	0.69	0.24	0.40
G 13	0.0	0.26	0.24	0.0
G 14	0.0	0.0	0.0	0.0
G 15	0.0	0.0	0.0	0.10
G 16	0.0	0.13	0.0	0.40
G 17	0.16	0.13	0.0	0.14
G 18	0.0	0.0	0.0	0.14
G 19	0.16	0.51	0.0	0.44
G 20	0.16	0.18	0.05	0.30
G 21	0.0	0.0	0.0	0.0

DUTY SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK.
OF40 GROUP SUMMARY REPORT FOR STAGE 38 BY GRADE

THE FOLLOWING GROUPS ARE INCLUDED IN THIS REPORT:

- MEMBERS= 15.
- MEMBERS= 12.
- MEMBERS= 12.
- MEMBERS= 7.

- S38E1-3 DESCRIPTION FOR OF40 STAGE 38 RANK E1-3
- STG38E4 DESCRIPTION FOR OF40 STAGE 38 RANK E4
- STG38E5 DESCRIPTION FOR OF40 STAGE 38 RANK E5
- STG38E6 DESCRIPTION FOR OF40 STAGE 38 RANK E6

DUTY/ TASK	DUTY/TASK TITLE	S	T	G	E	S	T	G	E	S	T	G	E
A	COMPUTER ROOM OPERATIONS	23	23	17	18	3	3	3	3	3	3	3	3
B	PRODUCTION CONTROL AND ANALYSIS ACTIVITIES	4	3	3	8	8	3	3	3	3	3	3	3
C	APPLICATIONS PROGRAMMER ACTIVITIES	59	53	60	48	1	8	8	8	8	8	8	8
D	SYSTEM PROGRAMMER (OPERATING SYSTEM) ACTIVITIES	5	2	4	2	1	1	1	1	1	1	1	1
E	SYSTEM PROGRAMMER (TELEPROCESSING) ACTIVITIES	1	2	1	0	3	4	5	6	3	4	5	6
F	ADPE-FMF OPERATIONS	8	14	12	14	3	3	3	3	3	3	3	3
G	SUPERVISORS ACTIVITIES	1	4	4	9	1	1	1	1	1	1	1	1

TASK SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK.
OF40 GROUP SUMMARY REPORT FOR STAGE 38 BY GRADE

THE FOLLOWING GRAPHS ARE INCLUDED IN THIS REPORT:

\$38E1-3 DESCRIPTION FOR OF40 STAGE 38 RANKS E1-3

STG38E4 DESCRIPTION FOR OF40 STAGE 38 RANK=E4

STG38E4 DESCRIPTION FOR OF40 STAGE 38 RANK=E4
STG38E5 DESCRIPTION FOR OF40 STAGE 38 RANK=E5

SIG38E5	DESCRIPTION FOR OF40 STAGE 38 RANK=E5
SIG38E6	DESCRIPTION FOR OF40 STAGE 38 RANK=E6

.MEMBERS= 15.

.MEMBERS=

MEMBERS= 12.

MEMBERS= 12.
MEMBERS= 7.

00000008

DTY/ TASK	DUTY/TASK TITLE	1	2	3	4	5	6
A	1 OPERATE CONSOLE KEYBOARD						
A	2 RESPOND OR REACT TO COMPUTER SYSTEM COMMAND. QUERY OR MESSAGE ON CONSOLE	3	3	2	4		
A	3 MOUNT TAPES ON TAPE DRIVE	3	2	1			
A	4 SET TAPE DRIVE CONTROLS	0	0	0	1	0	0
A	5 MONITOR TAPE DRIVE OPERATION	0	0	0	1	0	0
A	6 DISMOUNT TAPES FROM TAPE DRIVE	0	1	1			
A	7 MOUNT DISK PACK ON DISK DRIVE	0	0	0	0	0	0
A	8 SET DISK DRIVE CONTROLS	0	0	0	0	0	0
A	9 DISMOUNT DISK PACK FROM DISK DRIVE	0	0	0	0	0	0
A	10 LOAD CARDS INTO CARD READER PUNCH	0	0	0	0	0	0
A	11 SET CARD READER PUNCH CONTROLS	0	0	0	0	0	0
A	12 MONITOR READER PUNCH OPERATION	0	0	0	0	0	0
A	13 UNLOAD CARDS FROM CARD READER PUNCH	0	0	0	0	0	0
A	14 LOAD CARDS INTO CARD READER	0	0	0	0	0	0
A	15 SET CARD READER CONTROLS	0	0	0	0	0	0
A	16 MONITOR CARD READER OPERATION	0	0	0	0	0	0
A	17 UNLOAD CARDS FROM CARD READER	0	0	0	0	0	0
A	18 MOUNT PAPER ON 1403 OR 3211 PRINTER	0	0	0	0	0	0
A	19 SET 1403 OR 3211 PRINTER CONTROLS	0	0	0	0	0	0
A	20 MONITOR 1403 OR 3211 PRINTER OPERATION	0	0	0	0	0	0
A	21 BREAK DOWN OUTPUT FROM 1403 OR 3211 PRINTER	0	0	0	0	0	0
A	22 DISMOUNT PAPER FROM 1403 OR 3211 PRINTER	0	0	0	0	0	0
A	23 PROCESS INCOMING TAPES	0	0	0	0	0	0
A	24 PULL TAPE FOR MAILING	0	0	0	0	0	0
A	25 LABEL DISK PACK	0	0	0	0	0	0
A	26 LABEL TAPE	0	1	0	0	0	0
A	27 CLEAN TAPE	0	0	0	0	0	0
A	28 CERTIFY TAPE	0	0	0	0	0	0
A	29 INITIALIZE TAPE	0	0	0	0	0	0
A	30 STORE TAPE	0	1	0	0	0	0
A	31 PULL SCRATCH TAPE	0	0	0	0	0	0

DUTY/ TASK	DUTY/TASK TITLE	S S T T G E - 3	S S T T G E E 4	G G G 8 8 8 6
A 32DEGAUSS TAPE		0	0	0
A 33MAINTAIN ALTERNATE LIBRARY		0	0	0
A 34CHECK TEMPERATURE AND HUMIDITY GAUGES ON GRAPHS		0	0	1
A 35PREPARE PERIPHERAL DEVICE FOR CLEANING		0	0	0
		0	0	1
A 36CLEAN INTERIOR OF PERIPHERAL DEVICE		0	0	1
A 37PREPARE PERIPHERAL DEVICE FOR OPERATION		1	0	1
A 38GATHER CLEANING MATERIAL		1	1	1
A 39CLEAN COMPUTER ROOM FLOOR AND EXTERNAL SURFACES		2	1	1
A 40STORE CLEANING PRODUCT		1	1	1
A 41CHECK HUMIDIFIER ON MICROFICHE PROCESSOR		0	0	0
A 42LOAD MICROFILM INTO MICROFICHE PROCESSOR		0	0	0
A 43MOUNT FILM TAKE-UP SPOOL ON MICROFICHE PROCESSOR		0	0	0
A 44LOAD FLOPPY DISK INTO MICROFICHE PROCESSOR		0	0	0
A 45MOUNT INPUT TAPE ON MICROFICHE PROCESSOR		0	0	0
A 46LOAD MICROFICHE PROGRAM INTO MICROFICHE PROCESSOR		0	0	0
A 47START MICROFICHE PROCESSING		0	0	0
A 48STOP MICROFICHE PROCESSING		0	0	0
A 49DISMOUNT INPUT TAPE FROM MICROFICHE PROCESSOR		0	0	0
A 50INLOAD FLOPPY DISK FROM MICROFICHE PROCESSOR		0	0	0
A 51REMOVE FILM TAKE UP SPOOL FROM MICROFICHE PROCESSOR		0	0	0
A 52CHECK CHEMICAL LEVELS ON MICROFICHE DEVELOPER		0	0	0
A 53CHECK WATER LEVEL ON MICROFICHE DEVELOPER		0	0	0
A 54TAKE MICROFICHE DEVELOPER		0	0	0
A 55MOUNT MICROFILM ON MICROFICHE DEVELOPER		0	0	0
A 56REMOVE FILM FROM TAKE-UP SPOOL ON MICROFICHE DEVELOPER		0	0	0
A 57LOAD TAPE ON XEROX MINI COMPUTER		0	0	0
A 58LOAD PAPER ON XEROX MINI COMPUTER		0	0	0
A 59REMOVE MICROFICHE FROM MICROFICHE CUTTER MACHINE		0	0	0
A 60START MICROFICHE CUTTER MACHINE		0	0	0
A 61STOP MICROFICHE CUTTER MACHINE		0	0	0
A 62REMOVE MICROFICHE FROM MICROFICHE CUTTER MACHINE		0	0	0
A 63LOAD TAPE ON XEROX MINI COMPUTER		0	0	0
A 64LOAD PAPER ON XEROX MINI COMPUTER		0	0	0
A 65START PROCESSOR CONTROLS ON XEROX MINI COMPUTER		0	0	0
A 66START PROCESSOR CONTROLS ON XEROX MINICOMPUTER		0	0	0
A 67CALCULATE PRINT QUALITY ON XEROX MINI COMPUTER		0	0	0

DTY/
TASK

DUTY/TASK TITLE

A 63REMOVE PRINTED PAPER FROM XEROX MINI COMPUTER
A 70UNLOAD TAPE FROM XEROX MINI COMPUTER

A 70UNLOAD TAPE FROM XEROX MINI COMPUTER

A 71SET DECOLLATOR CONTROLS

A 72LOAD PAPER INTO DECOLLATOR

A 73STABT DECOLLIATOR

▲ 7331 AMI DECOLLATOR OPERATION

A 7 MONITOR DECISION FROM COLLATOR

A 76UNLOAD PAPER FROM DECOLLATOR

A 77SET BURSTER CONTROLS

A 781 CAD FORMS INTO 910PSTER

A 7151AB7 BURETTER

NOI LVA SED Q I S D B
BOT IN O K / B
A T I A R Y B U S E R

A B1UNLOAD FORMS FROM BURSTER

A 82LOAD CARDS INTO SORTER

A B7SET COVERED CONTROLS

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED

A REMONITOR FOR THE OPERATION

A BLREMOVE CARDS FROM SORTER

A 87WIRE INTERPRETER BOARD

A 84 INSET BOARD INTO INTERPRETER

A B310AD CARDS INTO INTERPRETER

A 911SET INTERPRETER CONTROLS

A 91START INTERPRETER

A 92MONITOR INTERPRETER OPERATION

A 93UNLOAD CARDS FROM INTERPRETER

▲ 94REMOVE BOARD FROM INTERPRETER

A 95WIRE REPRODUCER BOARD

A 9C INSERT BOARD INTO REPRODUCER

A 97LOAD CARDS INTO REPRODUCER

A 96 START REPRODUCER

A 93MONITOR REPRODUCTION OPERATION

A100 UNLOAD CARDS FROM REPRODUCER

A101 REMOVE BOARD FROM REPRODUCER

A1021 OLD PROGRAM INTO KEYPUNCH

A103LOAD CARDS INTO KEYPUNCH

A1045 ET KEYPUNCH CONTROLS

A105FEED OR REGISTER CARDS INTO/KEYPUNCH

A10LKEYPUNCH CARDS

QTY/ TASK	DUTY/TASK TITLE	S	S	T	T	S	S	T	T	S	S	T	T	S	S	T	T
B 4	VERIFY SUCCESSFUL JOB EXECUTION BY COMPLETION CODES ON DEALLOCATIONS	1	0	1	1	1	0	1	1	1	0	1	1	1	0	1	1
B 5	OPTIMIZE PRODUCTION JOB PACKAGE AS REQUIRED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B 6	USCREEN PRODUCTION JOB REQUEST FOR ACCURACY AND COMPLETENESS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B 7	REVIEW ENTIRE PRODUCTION JOB DOCUMENTATION PACKAGE PRIOR TO EXECUTION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B 8	PREPARE OR SETUP JOB FOR PRODUCTION IN ACCORDANCE WITH (IAW) JOB DOCUMENTATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B 9	MONITOR JOB DURING EXECUTION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B 10	MONITOR JOB FLOW (SYSTEM STATUS)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B 11	TROUBLESHOOT PRODUCTION ABNORMAL END OF JOB (ABE'DS) OR JOB DOCUMENTATION PROBLEMS	1	0	0	0	2	1	0	0	2	1	0	0	2	1	0	0
B 12	PERFORM QUALITY CONTROL (QC) CHECKS ON OUTPUT	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
B 13	PREPARE OUTPUT FOR SUPPLEMENTAL OPERATIONS (INTERPRETING, BOOKING AND BINDING, BUSTING IAW JOB DOCUMENTATION)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B 14	ORGANIZE INPUT/OUTPUT FOR DISTRIBUTION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B 15	MAINTAIN PRODUCTION JOB DOCUMENTATION FILE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B 16	ANALYZE PRODUCTION JOB FOR OPTIMIZATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B 17	CONDUCT ANNUAL AUDIT OF PRODUCTION JOBS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B 18	SCHEDULE PRODUCTION JOBS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B 19	DESIGNATE CLASSIFIED MATERIAL FOR DESTRUCTION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B 20	DESIGNATE CLASSIFIED OR PRIVACY ACT MATERIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N 1	ESTIMATE RATE OR EQUIPMENT FOR CLASSIFIED PROCESSING	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N 2	ESTIMATE EQUIPMENT REQUEST TO DETERMINE PROGRAM	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N 3	ESTIMATE EQUIPMENT REQUEST TO DETERMINE PROGRAM	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N 4	ESTIMATE EQUIPMENT REQUEST TO DETERMINE PROGRAM	2	1	2	1	1	2	1	2	1	2	1	2	1	2	1	2
N 5	ESTIMATE EQUIPMENT REQUEST TO DETERMINE PROGRAM	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
C 1	KEY IN (CODE) PROGRAM DATA	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
C 2	WRITE COMPILER JOB CONTROL LANGUAGE (JCL)	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
C 3	KEY IN COMPILER JCL DATA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C 4	COMPILE OR ASSEMBLE PROGRAM	3	4	4	4	2	3	4	4	2	3	4	4	2	3	4	4
C 5	WRITE PROGRAM TEST JCL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C 6	TEST APPLICATIONS PROGRAM	2	3	3	3	1	2	3	3	1	2	3	3	1	2	3	3
C 7	WRITE PRODUCTION PROCEDURE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C 8	WRITE OR UPDATE PRODUCTION JOB DOCUMENTATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C 9	MOVE TEST TO PRODUCTION	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0

DTY/ TASK	DUTY/TASK TITLE	S	T	G	S	T	G	S	T	G	S
C 15	FILE PROGRAM LISTING	1	1	1	1	1	1	1	1	1	1
C 16	DRAW LAYOUT OF PROCEDURE INPUTS/OUTPUTS	0	0	0	0	0	0	0	0	0	0
C 17	WRITE PROCEDURE FLOWCHART	0	1	0	0	1	0	0	0	0	0
C 18	WRITE NEW PROCEDURE UPDATE OR MODIFY	1	1	0	1	1	0	1	1	0	1
C 19	KEY IN PROCEDURE DATA	1	0	0	0	0	0	0	0	0	0
C 20	WRITE PROCEDURE TEST JCL	0	0	0	0	0	0	0	0	0	0
C 21	TEST PROCEDURE	0	0	0	0	0	0	0	0	0	0
C 22	DRAW LAYOUT OF SYSTEM INPUTS/OUTPUTS	0	0	0	0	0	0	0	0	0	0
C 23	WRITE SYSTEM FLOWCHART	1	0	0	0	0	0	0	0	0	0
C 24	TEST SYSTEM (OUTGOING)	2	1	0	1	0	1	0	1	0	1
C 25	RELEASE SYSTEM (CLASS I ONLY)	0	1	0	0	1	0	0	0	0	0
C 26	LOAD SYSTEM (CLASS I ONLY)	0	0	0	0	0	0	0	0	0	0
C 27	TEST SYSTEM (INCOMING, CLASS I ONLY)	1	0	1	1	0	1	1	0	1	1
C 28	CREATE AN INDEX LIST	0	0	0	0	0	0	0	0	0	0
C 29	ADD OR DELETE DATA SET OR MEMBER	2	2	1	1	2	2	1	1	2	1
C 30	RESTORE DATA SET (LIBRARY)	1	0	1	0	1	0	1	0	1	0
C 31	COMPRESS A LIBRARY PARTITIONED DATA SET (PDS)	1	0	1	0	1	0	1	0	1	0
C 32	CREATE A BACKUP COPY OF A DATA SET OR LIBRARY PDS	2	1	1	1	1	1	1	1	1	1
C 33	MOVE MEMBERS	1	0	0	0	0	0	0	0	0	0
C 34	RENAME LIBRARIES	1	0	0	0	0	0	0	0	0	0
C 35	RENAME A DATA SET (LIBRARY) OR A PDS MEMBER	2	0	1	1	2	0	1	1	2	1
C 36	RESEARCH PROGRAMS, PROCEDURES AND DATA SETS	1	1	1	1	1	1	1	1	1	1
C 37	DETERMINE WHICH PROGRAMS, PROCEDURES OR DATA SETS CAN BE DELETED	2	1	1	1	2	1	1	1	2	1
C 38	CREATE MICROFICHE TAPE OF DELETED MATERIAL	0	0	0	0	0	0	0	0	0	0
C 39	RUN UTILITY SCRATCH	0	0	0	0	0	0	0	0	0	0
C 40	FILE DOCUMENTATION PACKAGE OF DELETED MATERIAL	0	0	0	0	0	0	0	0	0	0
C 41	LOG-IN REQUEST	0	0	0	0	0	0	0	0	0	0
C 42	UPDATE REQUEST STATUS	0	0	0	0	0	0	0	0	0	0
C 43	LOG-OUT REQUEST	0	0	0	0	0	0	0	0	0	0
C 44	FILE COMPLETED REQUEST	0	0	0	0	0	0	0	0	0	0
C 45	DETERMINE OR EVALUATE PROGRAMMING PROBLEMS	2	1	2	3	2	1	2	3	2	3
C 46	RECEIVE TAPES AND REFERENCES FROM VENDORS	3	4	3	3	3	4	3	3	3	3
C 47	USE IBM OR OTHER SYSTEM REFERENCE MATERIALS	2	2	2	2	2	2	2	2	2	2
C 48	ALLOCATE DATA SETS	0	0	0	0	0	0	0	0	0	0
C 49	LOAD RELEASE TAPES	1	0	0	0	1	0	0	0	0	0
C 50	DETERMINE DATA BASE REQUIREMENTS	1	0	0	0	1	0	0	0	0	0
C 51	FORMAT DATA BASE DATA SETS (UTILITY)	1	0	0	0	1	0	0	0	0	0
C 52	INITIALIZE DATA BASE	1	0	0	0	1	0	0	0	0	0

RT// TASK	DUTY/TASK TITLE	1	2	3	4	5	6
C 53	RESPOND TO DATA BASE MANAGEMENT SYSTEM (DBMS) FAILURES	0	0	0	0	0	0
C 54	MAINTAIN DBMS SECURITY	0	0	0	0	0	0
C 55	TEST DBMS PERFORMANCE	0	0	0	0	0	0
C 56	TUNE DBMS	0	0	0	0	0	0
C 57	PROVIDE ASSISTANCE TO DBMS USERS	0	0	0	0	0	0
C 58	LOAD, UNLOAD OR RELOAD DBMS FILES	0	0	0	0	0	0
C 59	RESTORE DBMS TRANSACTIONS USING PROTECTION	0	0	0	0	0	0
LOADING TAPES							
C 60	IDENTIFY APPROPRIATE PROGRAM FOR PROCESSING	1	0	0	0	0	0
C 61	IDENTIFY PROGRAM INPUT/OUTPUT	1	0	0	0	0	0
C 62	DELIVER PROGRAM INPUT TO OPERATOR	0	0	0	0	0	0
C 63	EVALUATE PROGRAM OUTPUT	1	0	1	1	1	1
C 64	DELIVER PROGRAM OUTPUT TO CUSTOMER	0	0	0	0	0	0
C 65	DEBUG APPLICATIONS PROGRAM OR SYSTEM	3	3	2	2	2	2
C 66	TRANSLATE OR CONVERT PROGRAM INTO ANOTHER PROGRAMMING LANGUAGE	0	1	1	0	1	0
C 67	CONDUCT A STRUCTURED PROGRAMMING WALK-THROUGH	1	1	1	1	1	1
C 68	PRINT OR PUNCH A SEQUENTIAL DATA SET, PDS OR PDS MEMBER	0	0	0	0	0	0
C 69	LIST CATALOG ENTRIES, PDS DIRECTORY OR VOLUME TABLE OF	0	1	0	0	1	0
CONTENTS (VTOC)							
C 70	BUILD OR UPDATE PROGRAM, PROCEDURE LIBRARY (PROCLIB) OR LOAD LIBRARY (LOADLIB)	0	0	0	0	0	0
C 71	OVERRIDE A CATALOGED JCL PROCEDURE	0	0	0	0	0	0
C 72	EVALUATE SOFTWARE, DOCUMENTATION AND OUTPUT FOR COMPLIANCE WITH STANDARDS OR SPECIFICATIONS	1	1	1	2	1	1
C 73	TRAIN PERSONNEL IN APPLICATIONS PROGRAMMING TECHNIQUES	1	1	1	3	2	2
C 74	SUPERVISE PERSONNEL PERFORMING APPLICATIONS PROGRAMMING	1	1	1	2	2	2
DUTIES							
C 75	PROVIDE ASSISTANCE TO CUSTOMERS OR USERS	2	2	3	2	2	2
C 76	PROVIDE ASSISTANCE TO APPLICATIONS PROGRAMMERS	1	2	3	2	2	2
C 77	ESTABLISH OR MAINTAIN FUNCTIONAL DATA DICTIONARY USING DATA MANAGER	0	0	0	0	0	0
C 78	LAYOUT SYSTEM INPUT/OUTPUT CONFIGURATION	0	0	0	0	0	0
D 10	DEVELOP SYSTEM GENERATION CHECKLIST OR PLAN OF ACTION	0	0	0	0	0	0
D 20	APPLY AMDAHL SEA CODE	0	0	0	0	0	0
D 30	CODE SYSTEM MULTI VIRTUAL STORAGE, MULTIPLE VARIABLE TASK OR VIRTUAL MACHINE (MVS, MVT OR VM) MACROS	0	0	0	0	0	0
D 40	ASSEMBLE SYSTEM (MVS/MVT OR VM) MACROS	0	0	0	0	0	0
D 50	PRODUCE STAGE 11 JOB STREAM	0	0	0	0	0	0
D 60	EXECUTE STAGE 11 JOB STREAM	0	0	0	0	0	0

DTY/ TASK	DUTY/TASK TITLE	S	S	S	S	S	S
D	7 LINK JES 2 MODULES	3	1	1	1	1	1
D	8 UPDATE SYSTEM PARAMETERS (SYS1.PARMLIB MEMBERS)	3	1	1	1	1	1
D	9 PROCESS INSTALLATION VERIFICATION PROCEDURES (JVP)	8	3	3	3	3	3
D	10 UPDATE SYSTEM CATALOG(S)	1	8	8	8	8	8
D	11 CREATE OR TAKE SYSTEMS BACKUPS	-	E	E	E	E	E
D	12 CREATE OR MAINTAIN SYSTEM BACKUP PROCEDURES	3	4	5	5	5	5
D	13 BUILD VIRTUAL MACHINE (VM) DIRECTORY	0	0	0	0	0	0
D	14 BUILD VM NUCLEUS	0	0	0	0	0	0
D	15 INSTALL VIRTUAL MACHINE (VM) OPTIONS (SUCH AS REMOTE SPOOLING COMMUNICATIONS SUBSYSTEM (RSCS) OR VIRTUAL MACHINE/PROGRAMMING EXTENSION (VM/PE)	0	0	0	0	0	0
D	16 TEST OR VERIFY OPERATING SYSTEM GENERATION	0	0	0	0	0	0
D	17 INSTALL PROPRIETARY SOFTWARE PRODUCTS OR UPDATES	0	0	0	0	0	0
D	18 INSTALL VIRTUAL MACHINE (VM) OPERATING SYSTEM	0	0	0	0	0	0
D	19 INSTALL VM OPTIONS (SUCH AS RCSC OR VM PE)	0	0	0	0	0	0
D	20 CORRECT SYSGEN PROCESS	0	0	0	0	0	0
D	21 MAINTAIN SYSTEM TECHNICAL REFERENCE LIBRARY	0	0	0	0	0	0
D	22 WRITE OR UPDATE SYSTEMS PORTION OF INSTALLATION USERS GUIDE	0	0	0	0	0	0
D	23 PROVIDE TECHNICAL SUPPORT (VERBAL OR WRITTEN INSTRUCTIONS OR FORMAL CLASS) FOR ALL SYSTEM USERS	1	1	1	1	1	1
D	24 ANALYZE OPERATING SYSTEM PERFORMANCE	0	0	0	0	0	0
D	25 TUNE OPERATING SYSTEM	0	0	0	0	0	0
D	26 TROUBLESHOOT OPERATING SYSTEM FAILURE OR STOPPAGE	0	0	1	1	1	1
D	27 MODIFY OPERATING SYSTEM USING SYSTEM MODIFICATION PROGRAM (SMP) FOR MVS OR USING CMS FOR VM	0	0	0	0	0	0
D	28 OBTAIN AUTHORIZED USER ACCESS FILE	0	0	0	0	0	0
D	29 DEFINE FILE ACCESS USING TOP SECRET	0	0	0	0	0	0
D	30 ESTABLISH OR UPDATE INSTALLATION PROCESSING STANDARDS	0	0	0	0	0	0
D	31 COORDINATE SYSTEM CHANGES TO ENSURE ALTERNATE SITE	0	0	0	0	0	0
COMPATIBILITY							
E	1 RECEIVE TELECOMMUNICATION NETWORK	0	0	0	0	0	0
E	2 CERTIFY VENDOR SUPPORT CHANGES	0	0	0	0	0	0
E	3 IMPLEMENT SYSTEM CHANGE PACKAGES OR EMERGENCY URGENT (CHANGE PACKAGE (EUCP))	0	0	0	0	0	0
E	4 LAYOUT TELEPROCESSING NETWORK SOFTWARE CONFIGURATION	0	0	0	0	0	0
E	5 LAYOUT TELEPROCESSING NETWORK HARDWARE CONFIGURATION	0	0	0	0	0	0
E	6 CODE COMTEN CONFIGURATION PARAMETERS	0	0	0	0	0	0
E	7 CODE OR APPLY MODIFICATIONS TO COMTEN MODULES AND MACROS	0	0	0	0	0	0
E	8 ASSEMBLE OR LINK COMTEN MODULES AND MACROS	0	0	1	1	1	1

QTY/ TASK	DUTY/TASK TITLE	S	S	S	S	S	S	S	S
E 9	TEST OR VERIFY COMEN GENERATION								
E 10	COORDINATE TELEPROCESSING NETWORK CONFIGURATION CHANGES	0	0	0	0	0	0	0	0
	WITH OTHER NODES								
E 11	PROVIDE TRAINING TO PERSONNEL AT OTHER TELEPROCESSING NETWORK NODES	0	0	0	0	0	0	0	0
E 12	PROVIDE DIAGNOSTIC ASSISTANCE TO OTHER TELEPROCESSING NETWORK NODES	0	0	0	0	0	0	0	0
E 13	CODE ACCESS TABLE FOR TELEPROCESSING NETWORK SECURITY	0	0	0	0	0	0	0	0
E 14	DEFINE TERMINAL CHARACTERISTICS TO TELEPROCESSING MONITORS	0	0	0	0	0	0	0	0
E 15	CODE OR APPLY SECURITY FIXES AND ADDITIONAL FUNCTIONS TO	0	0	0	0	0	0	0	0
	TELEPROCESSING MONITOR								
E 16	INTEGRATE OPERATING SYSTEM SUPPORT PRODUCTS (SUCH AS SECURITY SYSTEMS, JES SPOOLING SYSTEM OR TAPE MANAGEMENT SYSTEM) INTO A TELEPROCESSING MONITOR	0	0	0	0	0	0	0	0
E 17	ANALYZE TELEPROCESSING NETWORK PERFORMANCE	0	0	0	0	0	0	0	0
E 18	TUNE TELEPROCESSING NETWORK	0	0	0	0	0	0	0	0
E 19	INSTALL DIAGNOSTIC EQUIPMENT ON FRONT END PROCESSOR (FEP) OR TELEPROCESSOR	0	0	0	0	0	0	0	0
E 20	TROUBLESHOOT TELEPROCESSING SYSTEM OR NETWORK FAILURE OR	0	0	0	0	0	0	0	0
	STOPPAGE								
E 21	PROGRAM TELEPROCESSING LINE SIMULATOR OR DATASCOPE	0	0	0	0	0	0	0	0
E 22	TROUBLESHOOT INDIVIDUAL USER OUTAGE	0	0	0	0	0	0	0	0
E 23	INSTALL COMMUNICATIONS LINES	0	0	0	0	0	0	0	0
E 24	INSTALL MODEMS	0	0	0	0	0	0	0	0
E 25	INSTALL TELECOMMUNICATION TERMINALS	0	0	0	0	0	0	0	0
E 26	PROVIDE ASSISTANCE TO TELEPROCESSING NETWORK USERS	0	0	0	0	0	0	0	0
E 27	OPERATE COMEN CONSOLE	0	0	0	0	0	0	0	0
F 1	COORDINATE MAINTENANCE SUPPORT WITH IBM ON ADPE-FMF EQUIPMENT	0	1	1	1	1	1	1	1
F 2	INSPECT ADPE-FMF EQUIPMENT	1	2	1	1	1	1	1	1
F 3	MONITOR UTILIZATION OF ADPE-FMF EQUIPMENT	1	3	1	1	1	1	1	1
F 4	DEVELOP APPROPRIATE ANNEXES TO OPERATION PLANS OR ORDERS	0	0	0	0	0	0	0	0
F 5	ESTABLISH OR COORDINATE COMMUNICATIONS WITH COMMUNICATIONS-ELECTRONICS OFFICER (CEO)	0	0	0	0	0	0	0	0
F 6	TEST OR VERIFY ELECTRICAL SUPPLIES (GENERATORS, CIRCUITS, OR LINES) FOR ADPE-FMF EQUIPMENT	0	0	0	0	0	0	0	0
F 7	PREPARE ADPE-FMF EQUIPMENT FOR DEPLOYMENT	1	1	1	1	1	1	1	1
F 8	TRAIN FUNCTIONAL USERS ON ADPE-FMF EQUIPMENT	1	1	2	2	2	2	2	2
	OPERATION								

DTY/ TASK	DUTY/TASK TITLE	S	S	S	S	S	S	S	S
F 9	TRAIN FUNCTIONAL USERS ON ADPE-FMF EQUIPMENT APPLICATIONS	0	1	1	1	2			
F 10	DISTRIBUTE CLASS 1B AND CLASS 11 SOFTWARE FOR ADPE-FMF USFRS	0	0	1	1	1			
F 11	PERFORM PREVENTIVE MAINTENANCE (PM) ON ADPE-FMF EQUIPMENT	1	2	1	1	1			
F 12	MAINTAIN LIBRARY OF ADPE-FMF APPLICATIONS SOFTWARE AND DOCUMENTATION	1	1	1	1	2			
F 13	PROVIDE ASSISTANCE TO ADPE-FMF FUNCTIONAL	2	2	3	3	3			
USERS									
G 1	SUPERVISE EXECUTION OF SYSTEM BACKUP PROCEDURES	0	0	0	1				
G 2	SUPERVISE PERSONNEL PERFORMING SYSTEMS PROGRAMMING	0	0	0	1				
G 3	EVALUATE SOFTWARE, DOCUMENTATION AND OUTPUT FOR COMPLIANCE WITH STANDARDS OR SPECIFICATIONS	0	0	0	0				
G 4	TRAIN PERSONNEL IN APPLICATIONS PROGRAMMING TECHNIQUES	0	0	1	0				
G 5	SUPERVISE PERSONNEL PERFORMING APPLICATIONS PROGRAMMING	0	0	1	1				
DUTIES									
G 6	WRITE CLASSIFIED MATERIAL SECURITY HANDLING PROCEDURES	0	0	0	0				
G 7	EVALUATE AUTOMATED DATA PROCESSING (ADP) SECURITY PROGRAMS	0	0	0	0				
G 8	SUPERVISE MAINTENANCE OF ADB EQUIPMENT	0	0	0	1				
G 9	SUPERVISE PERSONNEL OPERATING ADP EQUIPMENT	0	1	0	2				
G 10	SUPERVISE SYSTEMS ANALYSIS AND DESIGN TEAMS	0	0	0	1				
G 11	SUPERVISE PERSONNEL PERFORMING TELEPROCESSING OPERATIONS	0	0	0	0				
G 12	REVIEW ADP EQUIPMENT DAILY UTILIZATION LOG	0	1	0	0				
G 13	PREPARE ADP MANAGEMENT REPORTS	0	0	0	0				
G 14	PREPARE ADP BUDGET	0	0	0	0				
G 15	RECOMMEND NEW HARDWARE PROCUREMENT	0	0	0	0				
G 16	TRAIN PERSONNEL IN ADP SECURITY REQUIREMENTS	0	0	0	0				
G 17	TRAIN PERSONNEL IN SYSTEMS PROGRAMMING TECHNIQUES	0	0	0	0				
G 18	TRAIN PERSONNEL IN PRODUCTION CONTROL PROCEDURES	0	0	0	0				
G 19	TRAIN PERSONNEL IN INPUT/OUTPUT OPERATIONS	0	1	0	0				
G 20	TRAIN PERSONNEL IN COMPUTER ROOM OPERATIONS	0	0	0	0				
G 21	TRAIN PERSONNEL IN PRODUCTION ANALYSIS PROCEDURES	0	0	0	0				

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GROUP SUMMARY REP BY STAGE/GPARE

OF400283 OF400282 PAGE 1

DUTY SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK.
OF40 GROUP SUMMARY REPORT FOR STAGE 75 BY GRADE

000000008

THE FOLLOWING GROUPS ARE INCLUDED IN THIS REPORT:

- MEMBERS= 2.
- MEMBERS= 4.
- MEMBERS= 2.
- MEMBERS= 3.
- MEMBERS= 4.
- MEMBERS= 2.

- STG75E4 DESCRIPTION FOR OF40 STAGE 75 RANK=E4
- STG75E5 DESCRIPTION FOR OF40 STAGE 75 RANK=E5
- STG75E6 DESCRIPTION FOR OF40 STAGE 75 RANK=E6
- STG75E7 DESCRIPTION FOR OF40 STAGE 75 RANK=E7
- STG75E8 DESCRIPTION FOR OF40 STAGE 75 RANK=E8
- STG75E9 DESCRIPTION FOR OF40 STAGE 75 RANK=E9

DTY/ TASK	STG75E4	STG75E5	STG75E6	STG75E7	STG75E8	STG75E9
A	14.43	14.87	27.60	10.94	13.37	5.80
B	9.40	8.81	8.97	5.29	7.42	0.84
C	48.58	50.96	42.75	49.17	46.85	55.01
D	23.17	22.84	12.37	26.82	24.72	28.61
E	0.74	2.18	2.16	4.39	1.67	6.14
F	1.95	0.0	0.47	0.0	0.79	0.0
G	1.39	0.14	5.51	3.21	5.04	3.51

TASK SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK.
OF40 GROUP SUMMARY REPORT FOR STAGE 75 BY GRADE

OF400283

00000008

THE FOLLOWING GRIPS ARE INCLUDED IN THIS REPORT:

MEMBERS=
MEMBERS=
MEMBERS=
MEMBERS=
MEMBERS=
MEMBERS=

DTY/ TASK	STG75E4	STG75E5	STG75E6	STG75E7	STG75E8	STG75E9
A 1	0.99	1.22	0.77	0.39	0.51	0.28
A 2	0.99	1.04	1.07	0.49	0.51	1.16
A 3	0.09	0.14	0.45	0.09	0.31	0.0
A 4	0.0	0.14	0.45	0.0	0.10	0.0
A 5	0.0	0.14	0.80	0.0	0.21	0.0
A 6	0.28	0.14	0.45	0.09	0.31	0.0
A 7	0.28	0.08	0.60	0.20	0.10	0.0
A 8	0.0	0.39	0.60	0.11	0.16	0.0
A 9	0.28	0.08	0.60	0.20	0.10	0.0
A 10	0.0	0.53	0.65	0.20	0.36	0.28
A 11	0.0	0.23	0.65	0.11	0.20	0.0
A 12	0.0	0.23	0.65	0.11	0.15	0.0
A 13	0.0	0.23	0.65	0.20	0.36	0.0
A 14	0.0	0.23	0.65	0.20	0.36	0.0
A 15	0.0	0.23	0.65	0.11	0.36	0.0
A 16	0.0	0.53	0.65	0.11	0.15	0.0
A 17	0.0	0.23	0.65	0.20	0.36	0.0
A 18	0.0	0.14	0.38	0.0	0.0	0.0
A 19	0.0	0.14	0.50	0.0	0.20	0.0
A 20	0.0	0.14	0.50	0.0	0.20	0.0
A 21	0.0	0.20	0.38	0.09	0.10	0.0
A 22	0.0	0.14	0.27	0.0	0.0	0.0
A 23	0.28	0.0	0.59	0.0	0.24	0.0
A 24	0.0	0.0	0.35	0.0	0.0	0.0
A 25	0.28	0.48	0.30	0.09	0.42	0.0
A 26	0.28	0.08	0.0	0.0	0.0	0.0
A 27	0.0	0.0	0.0	0.0	0.0	0.0
A 28	0.0	0.0	0.0	0.0	0.0	0.0
A 29	0.0	0.0	0.0	0.09	0.0	0.0
A 30	0.28	0.0	0.0	0.0	0.0	0.0
A 31	0.28	0.0	0.0	0.0	0.0	0.0
A 32	0.0	0.0	0.0	0.0	0.0	0.0
A 33	0.0	0.0	0.0	0.27	0.0	0.0
A 34	0.62	0.0	0.45	0.0	0.0	0.0
A 35	0.0	0.0	0.0	0.0	0.0	0.0

GROUP SUMMARY REP BY STAGE/GRADE

DTY, TASK	STG75E4	STG75F5	STG75E6	STG75E7	STG75E8	STG75E9
A 36	0.0	0.0	0.0	0.0	0.0	0.0
A 37	0.0	0.0	0.0	0.0	0.0	0.0
A 38	0.0	0.0	0.0	0.0	0.0	0.0
A 39	0.0	0.0	0.0	0.0	0.0	0.0
A 40	0.0	0.0	0.0	0.0	0.0	0.0
A 41	0.0	0.0	0.0	0.0	0.0	0.0
A 42	0.0	0.0	0.0	0.0	0.0	0.0
A 43	0.0	0.0	0.0	0.0	0.0	0.0
A 44	0.0	0.0	0.0	0.0	0.0	0.0
A 45	0.0	0.0	0.0	0.0	0.0	0.0
A 46	0.0	0.31	0.0	0.0	0.0	0.0
A 47	0.0	0.0	0.0	0.0	0.0	0.0
A 48	0.0	0.0	0.0	0.0	0.0	0.0
A 49	0.0	0.0	0.0	0.0	0.0	0.0
A 50	0.0	0.0	0.0	0.0	0.0	0.0
A 51	0.0	0.0	0.0	0.0	0.0	0.0
A 52	0.0	0.31	0.0	0.0	0.0	0.0
A 53	0.0	0.0	0.0	0.0	0.0	0.0
A 54	0.0	0.0	0.0	0.0	0.0	0.0
A 55	0.0	0.0	0.0	0.0	0.0	0.0
A 56	0.0	0.0	0.0	0.0	0.0	0.0
A 57	0.0	0.0	0.0	0.0	0.0	0.0
A 58	0.0	0.0	0.0	0.0	0.0	0.0
A 59	0.0	0.0	0.0	0.0	0.0	0.0
A 60	0.0	0.0	0.0	0.0	0.0	0.0
A 61	0.0	0.0	0.0	0.0	0.0	0.0
A 62	0.0	0.0	0.0	0.0	0.0	0.0
A 63	0.0	0.0	0.0	0.0	0.0	0.0
A 64	0.0	0.0	0.0	0.0	0.0	0.0
A 65	0.0	0.0	0.0	0.0	0.0	0.0
A 66	0.0	0.0	0.0	0.0	0.0	0.0
A 67	0.0	0.0	0.0	0.0	0.0	0.0
A 68	0.0	0.0	0.0	0.0	0.0	0.0
A 69	0.0	0.0	0.0	0.0	0.0	0.0
A 70	0.0	0.0	0.0	0.0	0.0	0.0
A 71	0.0	0.0	0.0	0.0	0.0	0.0
A 72	0.0	0.0	0.0	0.0	0.0	0.0
A 73	0.0	0.0	0.0	0.0	0.0	0.0
A 74	0.0	0.0	0.35	0.0	0.0	0.0
A 75	0.0	0.0	0.0	0.0	0.0	0.0
A 76	0.0	0.0	0.0	0.0	0.0	0.0
A 77	0.0	0.0	0.0	0.0	0.0	0.0
A 78	0.0	0.0	0.0	0.0	0.0	0.0

GROUP SUMMARY REP BY STAGE/GRADE

DTY/ TASK	STG75E4	STG75E5	STG75E6	STG75E7	STG75E8	STG75E9
A 73	0.0	0.0	0.0	0.0	0.0	0.0
A 80	0.0	0.0	0.35	0.0	0.0	0.0
A 81	0.0	0.0	0.0	0.0	0.0	0.0
A 82	0.0	0.0	0.0	0.0	0.0	0.0
A 83	0.0	0.0	0.0	0.0	0.0	0.0
A 84	0.0	0.0	0.0	0.0	0.0	0.0
A 85	0.0	0.0	0.0	0.0	0.0	0.0
A 86	0.0	0.0	0.0	0.0	0.0	0.0
A 87	0.0	0.0	0.0	0.0	0.0	0.0
A 88	0.0	0.0	0.0	0.0	0.0	0.0
A 89	0.0	0.0	0.0	0.0	0.0	0.0
A 90	0.0	0.0	0.0	0.0	0.0	0.0
A 91	0.0	0.0	0.0	0.0	0.0	0.0
A 92	0.0	0.0	0.0	0.0	0.0	0.0
A 93	0.0	0.0	0.0	0.0	0.0	0.0
A 94	0.0	0.0	0.0	0.0	0.0	0.0
A 95	0.0	0.0	0.0	0.0	0.0	0.0
A 96	0.0	0.0	0.0	0.0	0.0	0.0
A 97	0.0	0.0	0.0	0.0	0.0	0.0
A 98	0.0	0.0	0.0	0.0	0.0	0.0
A 99	0.0	0.0	0.0	0.0	0.0	0.0
A100	0.0	0.0	0.0	0.0	0.0	0.0
A101	0.0	0.0	0.0	0.0	0.0	0.0
A102	0.19	0.25	0.77	0.0	0.0	0.0
A103	0.19	0.31	0.77	0.0	0.0	0.0
A104	0.0	0.25	0.92	0.0	0.0	0.0
A105	0.19	0.31	1.22	0.0	0.0	0.0
A106	0.19	0.31	1.52	0.09	0.12	0.0
A107	0.19	0.31	1.07	0.0	0.12	0.0
A108	0.0	0.0	0.0	0.0	0.0	0.0
A109	0.0	0.0	0.0	0.0	0.0	0.0
A110	0.0	0.0	0.0	0.0	0.0	0.0
A111	0.0	0.0	0.0	0.0	0.0	0.0
A112	0.0	0.0	0.0	0.0	0.0	0.0
A113	0.0	0.0	0.0	0.0	0.0	0.0
A114	0.0	0.0	0.0	0.0	0.0	0.0
A115	0.0	0.0	0.0	0.0	0.0	0.0
A116	0.0	0.0	0.0	0.0	0.0	0.0
A117	0.0	0.0	0.0	0.0	0.0	0.0
A118	0.0	0.0	0.0	0.0	0.0	0.0
A119	0.0	0.0	0.0	0.0	0.0	0.0
A120	0.0	0.0	0.0	0.0	0.0	0.0

GROUP SUMMARY REP BY STAGE/GRADE

DTY/ TASK	STG75E4	STG75E5	STG75E6	STG75E7	STG75E8	STG75E9
A121	0.0	0.0	0.0	0.0	0.0	0.0
A122	0.0	0.0	0.0	0.0	0.0	0.0
A123	0.0	0.0	0.0	0.0	0.0	0.0
A124	0.0	0.0	0.0	0.0	0.0	0.0
A125	0.0	0.0	0.0	0.0	0.0	0.0
A126	0.0	0.0	0.0	0.0	0.0	0.0
A127	0.0	0.0	0.0	0.0	0.0	0.0
A128	0.90	0.62	0.60	0.93	0.52	0.56
A129	0.62	0.25	0.0	0.09	0.24	0.0
A130	0.0	0.11	0.0	0.37	0.50	0.0
A131	0.19	0.17	0.15	0.65	0.06	0.0
A132	0.37	0.33	0.47	0.41	0.18	0.0
A133	0.19	0.39	0.0	0.32	0.43	0.0
A134	0.28	0.40	0.47	0.87	0.46	0.0
A135	0.28	0.0	0.0	0.0	0.0	0.0
A136	1.18	0.86	1.19	0.99	0.91	1.50
A137	1.70	0.92	0.70	0.97	1.49	1.47
A138	0.99	0.69	0.60	0.29	1.03	0.0
A139	0.28	0.06	0.59	0.21	0.74	0.0
A140	1.61	0.57	1.07	1.42	0.80	0.56
B 1	0.37	0.24	0.47	0.0	0.41	0.0
B 2	1.18	1.93	0.47	0.79	0.91	0.84
B 3	0.0	0.31	0.35	0.0	0.41	0.0
B 4	1.18	1.41	0.70	0.79	1.01	0.0
B 5	0.28	0.31	0.47	0.37	0.85	0.0
B 6	0.28	0.43	0.47	0.0	0.20	0.0
B 7	0.37	0.37	0.47	0.0	0.39	0.0
B 8	0.28	0.37	0.47	0.0	0.59	0.0
B 9	1.08	1.13	1.07	1.05	0.81	0.0
B 10	1.51	0.78	1.22	1.27	0.91	0.0
B 11	0.99	0.60	0.59	1.01	0.76	0.0
B 12	0.28	0.31	0.47	0.0	0.20	0.0
B 13	0.37	0.0	0.0	0.0	0.0	0.0
B 14	0.19	0.0	0.35	0.0	0.0	0.0
B 15	0.37	0.31	0.47	0.0	0.0	0.0
B 16	0.37	0.31	0.47	0.0	0.0	0.0
B 17	0.0	0.0	0.0	0.0	0.0	0.0
B 18	0.28	0.0	0.47	0.0	0.0	0.0
B 19	0.0	0.0	0.0	0.0	0.0	0.0
B 20	0.0	0.0	0.0	0.0	0.0	0.0
B 21	0.0	0.0	0.0	0.0	0.0	0.0
C 1	0.37	0.34	0.0	0.37	0.54	0.0
C 2	0.19	0.45	0.0	0.09	0.21	0.0

GROUP SUMMARY REP BY STAGE/GRADE

DTY/ TASK	STG75E4	STG75E5	STG75E6	STG75E7	STG75E8	STG75E9
C 3	0.28	0.80	0.84	0.09	0.31	0.0
C 4	3.03	1.57	0.54	0.99	0.56	0.90
C 5	0.37	1.57	0.69	0.99	0.71	0.0
C 6	1.70	1.82	1.34	1.25	1.16	1.50
C 7	0.99	1.48	1.11	1.25	1.02	0.90
C 8	1.80	1.80	1.26	1.44	1.28	0.30
C 9	0.47	1.48	0.47	0.97	0.76	0.30
C 10	0.47	1.05	0.35	0.88	0.56	0.0
C 11	0.47	0.66	0.47	0.70	0.76	0.30
C 12	0.47	0.66	0.59	0.70	0.81	0.30
C 13	0.47	0.66	0.59	0.79	0.64	0.0
C 14	0.37	0.66	0.35	0.0	0.39	0.0
C 15	0.19	1.36	0.0	0.0	0.52	0.0
C 16	0.19	0.76	0.35	0.09	0.21	0.0
C 17	0.19	0.35	0.35	0.09	0.21	0.0
C 18	0.47	1.11	0.47	0.46	0.58	0.0
C 19	0.47	0.80	1.22	0.46	0.64	0.0
C 20	0.47	1.05	0.47	0.46	0.64	0.0
C 21	0.47	1.05	0.47	0.46	0.64	0.0
C 22	0.28	0.25	0.35	0.09	0.21	0.0
C 23	0.28	0.0	0.23	0.09	0.33	0.0
C 24	0.47	0.25	0.0	0.0	0.39	0.0
C 25	0.37	0.31	0.23	0.0	0.0	0.0
C 26	0.37	0.31	0.23	0.0	0.21	0.0
C 27	0.37	0.31	0.23	0.0	0.0	0.0
C 28	0.0	0.99	1.07	0.27	1.00	0.0
C 29	0.37	1.22	1.22	0.92	1.24	0.60
C 30	0.47	1.01	1.37	1.25	1.43	2.91
C 31	0.99	0.87	1.11	1.16	1.30	3.19
C 32	2.94	0.93	1.07	1.76	1.56	2.29
C 33	0.99	0.81	1.22	1.47	1.17	2.01
C 34	0.99	0.95	0.45	1.57	0.90	1.71
C 35	0.99	1.01	0.96	1.47	0.71	1.71
C 36	1.70	0.98	1.34	1.57	0.70	1.12
C 37	0.99	0.50	1.07	1.25	0.71	1.12
C 38	0.47	0.0	0.0	0.0	0.0	0.0
C 39	0.47	0.54	0.92	0.94	1.13	1.12
C 40	0.0	0.0	0.0	0.0	0.0	0.0
C 41	0.0	0.0	0.47	0.0	0.21	0.0
C 42	0.0	0.0	0.47	0.0	0.21	0.0
C 43	0.0	0.0	0.47	0.0	0.21	0.0
C 44	0.0	0.0	0.47	0.0	0.21	0.0

GROUP SUMMARY REP BY STAGE/GRADE

DTY/ TASK	STG75E4	STG75E5	STG75E6	STG75E7	STG75E8	STG75E9
C 45	0.58	1.08	1.07	1.74	1.33	1.67
C 46	0.0	0.83	0.47	1.88	1.22	4.05
C 47	4.79	1.67	1.61	1.94	1.65	4.05
C 48	2.78	1.08	1.22	1.53	0.81	3.17
C 49	0.09	0.97	0.30	1.94	0.75	2.57
C 50	0.0	0.0	0.15	0.0	0.46	0.0
C 51	0.0	0.0	0.45	0.0	0.46	0.30
C 52	0.0	0.0	0.0	0.0	0.48	0.30
C 53	0.0	0.0	0.0	0.42	0.63	1.50
C 54	0.0	0.0	0.0	0.0	0.21	0.0
C 55	0.0	0.0	0.0	0.0	0.29	0.0
C 56	0.0	0.0	0.0	0.0	0.29	0.0
C 57	0.0	0.18	0.0	0.0	0.62	0.0
C 58	0.0	0.0	0.0	0.0	0.50	0.0
C 59	0.0	0.0	0.0	0.0	0.0	0.0
C 60	0.37	0.22	0.0	0.27	0.16	0.0
C 61	0.37	0.34	0.47	0.37	0.16	0.0
C 62	0.28	0.0	0.0	0.0	0.16	0.0
C 63	0.47	0.45	0.47	0.55	0.35	0.0
C 64	0.28	0.34	0.35	0.0	0.16	0.0
C 65	2.41	1.29	1.07	1.83	0.76	1.40
C 66	0.28	0.0	0.35	0.28	0.06	0.0
C 67	0.28	0.06	0.0	0.0	0.0	0.0
C 68	0.37	1.15	0.92	0.96	0.58	1.71
C 69	2.94	1.09	1.22	1.33	1.30	2.29
C 70	1.18	1.15	1.22	1.16	1.42	3.47
C 71	0.47	1.21	1.16	1.16	0.70	1.12
C 72	0.37	0.94	0.92	1.53	0.93	0.0
C 73	0.09	0.37	0.0	0.55	0.31	0.0
C 74	0.09	0.37	0.0	0.0	0.20	0.0
C 75	0.56	0.86	0.47	1.01	0.82	1.67
C 76	0.47	1.51	1.07	1.93	1.47	3.47
C 77	0.0	0.31	0.30	0.0	0.21	0.0
C 78	1.70	0.54	0.60	0.46	0.39	0.0
D 1	1.23	0.79	0.75	0.65	0.63	0.30
D 2	0.19	0.64	0.0	0.37	0.18	0.0
D 3	1.80	1.07	0.0	0.32	0.91	1.12
D 4	1.80	1.19	0.30	1.25	0.71	2.27
D 5	1.42	0.70	0.75	1.25	0.65	2.27
D 6	1.42	0.70	0.75	1.25	0.65	2.27
D 7	0.80	0.84	0.0	0.79	0.50	0.0
D 8	0.90	0.87	0.98	1.35	1.59	1.77
D 9	0.28	0.87	0.0	0.46	0.0	0.0

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DTY/ TASK	STG75E4	STG75E5	STG75E6	STG75E7	STG75E8	STG75E9
D 10	0.37	1.12	1.07	1.23	1.51	0.90
D 11	3.03	1.39	1.37	1.62	1.65	2.59
D 12	2.41	1.08	1.37	1.62	1.84	1.69
D 13	0.0	0.32	0.0	0.42	0.50	0.56
D 14	0.0	0.32	0.0	0.42	0.41	0.56
D 15	0.0	0.32	0.0	0.70	0.41	0.0
D 16	0.56	1.27	0.0	1.53	0.58	1.80
D 17	0.47	1.22	0.0	1.66	0.65	4.05
D 18	0.0	0.26	0.0	0.42	0.21	0.56
D 19	0.0	0.26	0.0	0.79	0.41	0.0
D 20	0.37	0.79	0.75	1.24	0.98	0.90
D 21	2.75	0.78	0.60	0.27	1.12	0.60
D 22	0.56	0.70	0.0	0.46	0.59	0.30
D 23	0.56	0.40	0.0	0.46	1.17	1.20
D 24	0.47	0.98	0.60	1.45	1.66	0.56
D 25	0.47	0.98	0.60	1.45	1.59	0.0
D 26	0.47	1.00	1.26	1.74	1.78	1.16
D 27	0.19	1.28	0.75	0.89	1.45	1.20
D 28	0.0	0.37	0.0	0.0	0.18	0.0
D 29	0.0	0.0	0.0	0.0	0.0	0.0
D 30	0.37	0.0	0.0	0.37	0.06	0.0
D 31	0.28	0.31	0.45	0.37	0.16	0.0
E 1	0.0	0.31	0.30	0.0	0.0	0.0
E 2	0.19	0.64	0.0	1.09	0.39	0.0
E 3	0.0	0.31	0.45	0.0	0.53	0.0
E 4	0.0	0.0	0.0	0.27	0.0	0.0
E 5	0.0	0.0	0.0	0.27	0.0	0.0
E 6	0.0	0.31	0.0	0.37	0.0	0.0
E 7	0.09	0.0	0.0	0.37	0.0	0.0
E 8	0.19	0.31	0.60	0.46	0.0	0.0
E 9	0.0	0.0	0.0	0.0	0.0	0.0
E 10	0.0	0.31	0.0	0.0	0.23	0.0
E 11	0.0	0.0	0.0	0.0	0.12	0.0
E 12	0.0	0.0	0.0	0.0	0.18	0.30
E 13	0.0	0.0	0.0	0.0	0.0	0.0
E 14	0.0	0.0	0.0	0.0	0.0	1.20
E 15	0.0	0.0	0.0	0.0	0.0	0.0
E 16	0.0	0.0	0.0	0.0	0.0	3.75
E 17	0.0	0.0	0.15	0.0	0.0	0.0
E 18	0.0	0.0	0.15	0.0	0.0	0.0
E 19	0.0	0.0	0.0	0.0	0.0	0.0
E 20	0.0	0.0	0.15	0.37	0.0	0.0

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DTY/ TASK	STG75E4	STG75E5	STG75E6	STG75E7	STG75E8	STG75E9
E 21	0.0	0.0	0.0	0.0	0.0	0.0
E 22	0.28	0.0	0.35	0.55	0.0	0.0
E 23	0.0	0.0	0.0	0.0	0.0	0.0
E 24	0.0	0.0	0.0	0.0	0.0	0.0
E 25	0.0	0.0	0.0	0.0	0.0	0.0
E 26	0.0	0.0	0.0	0.27	0.23	0.60
E 27	0.0	0.0	0.0	0.37	0.0	0.30
F 1	0.28	0.0	0.0	0.0	0.0	0.0
F 2	0.09	0.0	0.0	0.0	0.0	0.0
F 3	0.19	0.0	0.0	0.0	0.0	0.0
F 4	0.28	0.0	0.0	0.0	0.0	0.0
F 5	0.0	0.0	0.47	0.0	0.0	0.0
F 6	0.0	0.0	0.0	0.0	0.0	0.0
F 7	0.0	0.0	0.0	0.0	0.0	0.0
F 8	0.09	0.0	0.0	0.0	0.0	0.0
F 9	0.09	0.0	0.0	0.0	0.0	0.0
F 10	0.19	0.0	0.0	0.0	0.0	0.0
F 11	0.28	0.0	0.0	0.0	0.0	0.0
F 12	0.28	0.0	0.0	0.0	0.79	0.0
F 13	0.19	0.0	0.0	0.0	0.0	0.0
G 1	0.37	0.0	1.34	0.56	1.72	0.0
G 2	0.0	0.0	0.60	1.29	1.53	1.20
G 3	0.0	0.0	0.0	0.0	0.0	0.0
G 4	0.0	0.0	0.0	0.0	0.0	0.0
G 5	0.0	0.0	0.0	0.0	0.15	0.0
G 6	0.0	0.0	0.0	0.0	0.0	0.0
G 7	0.0	0.0	0.0	0.0	0.0	0.0
G 8	0.19	0.0	0.0	0.0	0.0	0.0
G 9	0.19	0.0	0.82	0.0	0.15	0.0
G 10	0.0	0.0	0.0	0.0	0.0	0.0
G 11	0.0	0.0	0.0	0.0	0.0	0.0
G 12	0.0	0.0	0.0	0.0	0.0	0.0
G 13	0.19	0.0	0.47	0.0	0.0	0.0
G 14	0.19	0.0	0.0	0.0	0.0	0.0
G 15	0.0	0.08	0.0	0.0	0.10	0.0
G 16	0.0	0.0	0.0	0.0	0.0	0.0
G 17	0.0	0.06	0.45	0.97	0.70	2.31
G 18	0.09	0.0	0.82	0.19	0.20	0.0
G 19	0.09	0.0	0.70	0.0	0.0	0.0
G 20	0.09	0.0	0.30	0.21	0.31	0.0
G 21	0.0	0.0	0.0	0.0	0.20	0.0

DUTY SUMMARY OF AVERAGE PERCENT TIME SPENT BY ALL MEMBERS OF GROUP PER TASK.
OF40 GROUP SUMMARY REPORT FOR STAGE 75 BY GRADE

000000008

THE FOLLOWING GROUPS ARE INCLUDED IN THIS REPORT:

- STG75E4 DESCRIPTION FOR OF40 STAGE 75 RANK=E4
- STG75E5 DESCRIPTION FOR OF40 STAGE 75 RANK=E5
- STG75E6 DESCRIPTION FOR OF40 STAGE 75 RANK=E6
- STG75E7 DESCRIPTION FOR OF40 STAGE 75 RANK=E7
- STG75E8 DESCRIPTION FOR OF40 STAGE 75 RANK=E8
- STG75E9 DESCRIPTION FOR OF40 STAGE 75 RANK=E9

- MEMBERS= 2.
- MEMBERS= 4.
- MEMBERS= 2.
- MEMBERS= 3.
- MEMBERS= 4.
- MEMBERS= 2.

S S S S S S S
T T T T T T T
G G G G G G G
7 7 7 7 7 7 7
5 5 5 5 5 5 5
E E E E E E E
4 5 6 7 8 9

DUTY/
TASK

DUTY/TASK TITLE

A	COMPUTER ROOM OPERATIONS	14	15	28	11	13	6
B	PRODUCTION CONTROL AND ANALYSIS ACTIVITIES	9	9	9	5	7	1
C	APPLICATIONS PROGRAMMER ACTIVITIES	49	51	43	49	47	55
D	SYSTEM PROGRAMMER (OPERATING SYSTEM) ACTIVITIES	23	23	12	27	25	29
E	SYSTEM PROGRAMMER (TELEPROCESSING) ACTIVITIES	1	2	2	4	2	6
F	ADPE-FMF OPERATIONS	2	0	0	0	1	0
G	SUPERVISORS ACTIVITIES	1	0	6	3	5	4

MOS 4034TASKSRANKS

1.A (4.A & 5.A) Operate Console	All Ranks - entry level
1.B (4.B & 5.B) Operate Tape Drive	All Ranks - entry level
1.C (4.C) Operate Disk Drive	All Ranks - entry level
1.D Operate Card Reader Punch	All Ranks - entry level
1.E Operate Card Reader	All Ranks - entry level
1.F (4.D) Operate Printer	All Ranks - entry level
1.G Manage Magnetic Media Library	All Ranks - entry level
2.A Monitor Climate Control	All Ranks - entry level
2.B Clean Peripheral Devices	All Ranks - entry level
2.C Clean all external surfaces	All Ranks - entry level
3.A Produce Microfiche	✓ Sgt. & Above - career level
3.C Operate Decollator	All Ranks - entry level
3.D Operate Burster	All Ranks - entry level

MOS 4038

TASKS

RANKS

1.A (4.A & 5.A) Operate Console

All Ranks

1.D Operate Card Reader Punch

All Ranks

1.F (4.D) Operate Printer

All Ranks

2.A Monitor Climate Control

All Ranks - continuing requirement

2.B Clean Peripheral Devices

All Ranks - supervisor requirements

3.B Operate Key Punch

All Ranks

6.A Provide Customer Assistance

All Ranks

7.A Perform Job Optimization

All Ranks

7.B Conduct Annual Audit

SSgt & Above

8.A Produce Daily Schedule

All Ranks

8.B Run Job

All Ranks

9.B Write Procedure

SSgt & Above

9.E Delete System

All Ranks

~~9.F Transfer Files to System~~

~~All Ranks~~

10.A Maintain Programmer Library

All Ranks

~~11.A & 11.D Load Software~~

~~All Ranks~~

~~11.E Maintain Data Base~~

~~SSgt & Above~~

MOS 4063/4065TASKRANKS

1.A (4.A & 5.A) Operate Console.	All Ranks - entry level
6.A Provide Customer Assistance	Cpl & Above - career level
8.B Run Job	Cpl & Above - career level
8.C Respond to Abnormal Job Termination	All Ranks - entry level
9.A Write Program	All Ranks - entry level
9.B Write Procedure	All Ranks - entry level
9.C Write System	SSgt & Above - career level
9.D Run Program	All Ranks - entry level
9.E Delete System	All Ranks - entry level
9.F Trouble Shoot Program	All Ranks - entry level
10.A Maintain Programmer Library	All Ranks - entry level
11.A & 11.D Load Software	All Ranks - entry level
11.B Create Data Base	SSgt & Above - career level

MOS 4066TASK

1.A (4.A & 5.A) Operate Console
2.C Clean external surfaces
6.A Provide Customer Assistance
8.C Respond to Abnormal Job Termination
9.A Write Programs
9.B Write Procedures
9.C Write System
9.D Run Program
9.E Delete System
10.A Maintain Programmer Library
11.A & 11.D Load Software
11.B Create Data Base

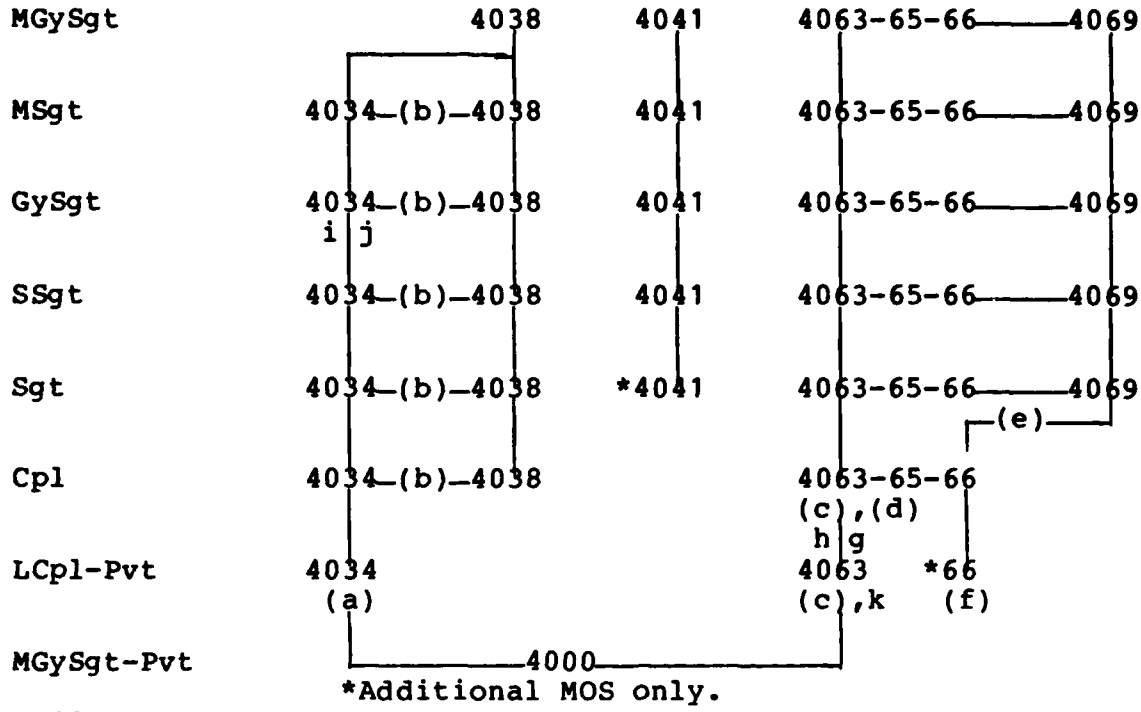
RANKS

All Ranks - entry level
All Ranks - entry level
Cpl & Above - career level
All Ranks - entry level
All Ranks - entry level
All Ranks - entry level
SSgt & Above - career level
All Ranks - entry level
All Ranks - entry level
All Ranks - entry level
All Ranks - entry level
All Ranks - entry level

MOS 4069

<u>TASK</u>	<u>RANKS</u>
1.A (4.A & 5.A) Operate Console	All Ranks
8.C Respond to Abnormal Job Termination	All Ranks
6.A Provide Customer Assistance	All Ranks
9.A Write Program	All Ranks
9.B Write Procedure	All Ranks
9.E Delete System	All Ranks
9.F Trouble Shoot Program	All Ranks
10.A Maintain Programmer Library	All Ranks
11.A & 11.D Load Software	All Ranks
11.B Create Data Base	All Ranks
11.C Maintain Data Base	All Ranks
12.A Generate MVS Operating System	All Ranks
12.C Generate VM System	All Ranks
12.D Maintain MVS Operating System	All Ranks
12.F Maintain VM System	All Ranks

OCCFLD 40 (DATA SYSTEMS) PROPOSED MOS STRUCTURE



<u>MOS</u>	<u>TITLE</u>
4000	Basic Data Systems Marine
4034	Computer Operator
4038	Data Control Coordinator
*4041	Teleprocessing Specialist
4063	Applications Programmer, COBOL
4065	Applications Programmer, ALC
*4066	Applications Programmer, EDL
4069	System Programmer

FORMAL TRAINING (to be attended at level indicated on chart; () indicates course is "required"; other courses available as indicated); refer to the current edition of MCO P1500.12, Marine Corps Formal Schools Catalog, for course content and prerequisites.

- a. Basic Operators Course
- b. Data Control Techniques Course
- c. Basic Programmer, COBOL Course
- d. Assembly Language Coding (ALC)
- e. Systems Programmer Course
- f. ADPE-FMF Programmer Course
- g. ACL/JCL Data Management
- h. Advanced Mark IV File Management
- i. Scan Data Supervisor
- j. Data Processing Management Seminar
- k. COBOL Programming (Specialist) Course

MOS CONVERSION CHART

PRESENT MOS CODE	PRESENT MOS TITLE	GRADE	NEW MOS CODE	NEW MOS TITLE	GRADE	REMARKS
4034	Computer Operator	MSgt-Pvt	4034	Computer Operator	MSgt-Pvt	Note 2
4038	Data Control Coordinator	MGySgt-Cpl	4038	Data Control Coordinator	MGySgt-Cpl	Note 2
4063	Programmer, COBOL	MGySgt-Pvt	4041	Teleprocessing Specialist	MGySgt-Sgt	Note 1
4065	Programmer, ALC	MGySgt-Cpl	4063	Applications Programmer, COBOL	MGySgt-Pvt	Note 2
4066	Programmer, EDL	MGySgt-LCpl	4065	Applications Programmer, ALC	MGySgt-Cpl	Note 2
4069	Systems Programmer	MGySgt-Sgt	4066	Applications Programmer, EDL	MGySgt-LCpl	Note 2
			4069	Systems Programmer	MGySgt-Sgt	Note 2

NOTES:

1. New MOS, additional MOS only.
2. Revised MOS description.

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PART III

TRAINING ANALYSIS SURVEY REPORT

Occupational Field 40 Data Systems

1. Introduction

a. The Training Analysis Survey Report focuses on the task analysis process as it relates to training. Once the Occupational Analysis Survey Report has identified the manpower related issues, the task analysts take the data and begin to evaluate the training implications. It must be noted that the distinction between "manpower" and "training" is not a clear or clean one. Some of the issues dealt with in the Occupational Analysis Survey Report have surfaced again in the Training Analysis Survey Report because the same issues have substantial relevance to training.

b. The unique characteristics of OccFld 40 must be mentioned before any detailed discussion of the training analysis findings can take place. These unique aspects were often central to a particular training analysis item. Their importance to this study was their effect on training. The major items are indicated below:

(1) OccFld 40 is a constantly changing occupational field that must keep pace with rapidly changing technology.

(2) During the period of this study, the OccFld was in the process of a phased changeover of major proportions: The introduction of new hardware, new software, and the implementation of new procedures to use both.

(3) "Site-dependent" is almost the norm for many data processing installations. They provide ADP services to such a wide variety of users that the hardware, software and procedures must inevitably vary also. This results in decentralized operations.

(4) Personnel management requirements in the OccFld have resulted in some unique situations:

(a) Some officer and enlisted DBMS tasks are not differentiated.

(b) Due to lateral moves and the technical nature of the OccFld, grade is not as strong a factor in the assignment of responsibility as it is in other occupational fields.

(c) The terminology used by Marines in the OccFld is unique. There are differences in word/acronym meanings within the OccFld.

(5) The occupational field has relatively few critical tasks that are procedural, easily observable and measurable.

2. Background. The questionnaire survey used to collect data from Marines in OccFld 40 solicited information on training performance. The four factors used in the survey were training emphasis, task difficulty, percent of Marines performing and percent of time spent performing. The information obtained from the survey was used to determine if a task should be trained and if a task should be trained in units or in institutions. The four factors are explained below:

a. Training Emphasis. Training emphasis was determined by asking 228 supervisors in OccFld 40 about tasks they were familiar with. The supervisors were asked to determine the tasks that should be trained in units or institutions and tasks that need not be trained.

b. Task Difficulty. The task difficulty was determined by asking the supervisors described in paragraph 2a above the amount of time a Marine needed to spend in order to learn how to satisfactorily perform each task.

c. Percent of Marines Performing. This was determined by asking 558 Marines from OccFld 40 if they performed the task.

d. Percent of Time Spent Performing. This was determined by asking the 558 Marines referred to in paragraph 2b above the relative amount of time they spent doing one task as compared to the amount of time spent doing all tasks.

3. Instructional Setting Board

a. Instructional Setting Board (ISB) Procedures. The ISB convened at 0800 EST, 18 April 1983. See Appendix A for a list of ISB members. The sequence of events was as follows:

(1) The Deputy Chief of Staff for Training welcomed the board and provided guidance.

(2) The Head, ISD Control Section explained the Instructional Systems Development process and the Individual Training Standards System.

(3) The MOS Manual coordinator briefed the occupational analysis survey report (see Part II above).

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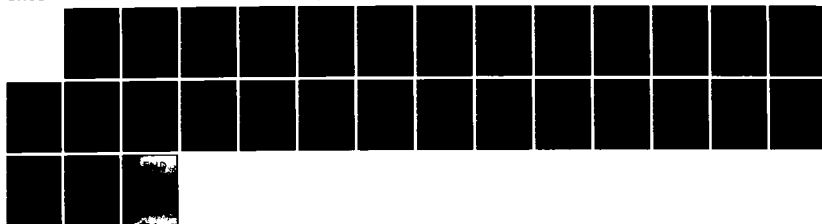
ANALYSIS SURVEY REPORT OCCUPATIONAL FIELD 40 DATA
SYSTEMS(U) DEPARTMENT OF THE NAVY WASHINGTON DC 1984

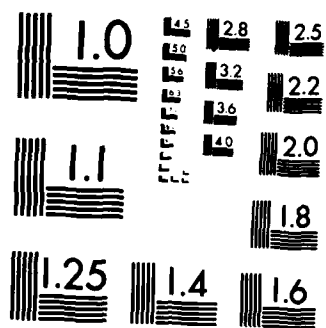
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(4) The Head, Ground Training Analysis and Design Section explained the procedures to be used by the ISB.

(5) The board was briefed by the Analysis and Design Procedures Evaluation Project (A&DPEP) analysts responsible for developing training standards for MOS's 4034, 4038, 4063/65/66 and 4069.

b. MOS Analysts Briefings. Each analyst described the tasks that comprised an MOS and relevant problems. The analyst recommended a training setting for each task within his purview. The settings were managed-on-the-job training (MOJT) for unit training or formal school (FS) for institutional training (see Appendix B). Some tasks were identified that were site unique. Consensus was sought on each point of discussion/recommendation. The exceptions have an explicit statement to that effect.

c. Mobilization Discussion

(1) The ISB discussed mobilization as it would affect the training of Marines in OccFld 40. The representative from the Central Design and Programming Activity (CDPA), MCDEC, stated that there was reserve augmentation already assigned. The extra Marines needed for longer hours of operation would come initially from these reserve augmentees. Computer Sciences School (CSS), MCDEC, has plans to lengthen the instructional day by having two shifts (if needed), and saw no difficulties in meeting the projected modest increase in quotas for trained Marines to the field. There should be no change in curriculum at CSS. The ISB recommended no variation to the tasks, nor to their assignment to an instructional setting.

4. Individual Training Standards (ITS) Development

a. Discussion. Training standards are a uniform set of training objectives and performance measures for each category of training. The Individual Training Standards System provides information so that all Marines who have the same MOS are taught the same individual skills required to perform their job. To this end ITS's have been developed outlining the enlisted individual training standards for OccFld 40. The ITS, in order to be effective, must be available to all Marines involved in Data Processing. Individual training standards for the Data Processing Officer will be developed and published at a future date.

The analysts developed ITS's from three principal sources: Data collected and validated by subject matter experts (SME's); information gathered from members of the Instructional Setting Board (ISB); and the objective analysis of the Comprehensive Occupational Data Analysis Program (CODAP) data.

b. Components of an Individual Training Standard. (The seven numbered paragraphs below are keyed to the same numbered paragraphs on each ITS.)

(1) Task. A task is a unit of work which has a specific beginning and ending; can be measured; and is a logical and necessary unit of performance. Each task has an alphanumeric designator to identify it.

(2) Administrative Instructions. Administrative instructions describe the relative amount of simulation involved with the behavior, conditions, and standard in the training environment. If there is no simulation, only pertinent administrative instructions will appear.

(3) Behavior. Behavior is the action to be performed by the Marine. In some cases, the action to be performed by the Marine will be different than the task described in paragraph (2) above. This will be the case when time constraints, equipment limitations and other factors make it impossible for the Marine to perform the task. In OccFld 40 all tasks can be trained and no simulation is required. Therefore, the task and behavior are the same in all training situations.

(4) Conditions. Equipment, manuals, assistance/supervision, special physical demands, environmental conditions, and location that pertain to performing the task.

(5) Standards. Accuracy, time limits, sequencing, quality, product, process, etc., that indicate how well a task should be performed.

(6) Steps. List of steps that must be performed in order to accomplish the training objective. The preceding "Standards" paragraph will list sequencing considerations.

(7) References. Manuals, Job Aids, FMFM's, etc., NOT LISTED in the "Conditions" paragraph, that will guide trainers, instructors, or performers.

c. ITS Content. All ITS's were written in the same format. After ITS's were formatted, each section had to be developed. The ITS contains seven enclosures and below is a brief description of each:

(1) Enclosure (1), How to Use the ITS System for OccFld 40 This enclosure simply explains how the ITS is to be used.

(2) Enclosure (2), Components of an Individual Training Standard -- This enclosure lists and explains each component of the ITS.

(3) Enclosure (3), Tasks by Duty Area and Responsibility for Training -- This enclosure provides a list of tasks by duty area and the assignment of responsibility to train the task.

(4) Enclosure (4), Cross Reference Index Tasks Assigned by MOS and Grade -- This enclosure provides a cross reference index that lists tasks that are common to two or more MOS's, and assigns all tasks to specific grades within each MOS.

(5) Enclosure (5), Training Standards for OccFld 40 -- This enclosure provides the individual training standards for each MOS within OccFld 40. Additionally, this enclosure shows a diagram of duty area and tasks for each MOS.

(6) Enclosure (6), Correspondence Courses and Training Aids/Devices for OccFld 40 -- This enclosure provides the location and availability of correspondence courses and training aids support for OccFld 40.

(7) Enclosure (7), Feedback Questionnaire -- This enclosure provides feedback to analysts in the Training Department.

5. Findings (Problem, Discussion, Recommendation)

X a. Entry Level Training for MOS 4034

(1) Problem. The Computer Sciences School, MCDEC was not directed to teach any entry level tasks to computer operators.

(2) Discussion

(a) After considerable exchange of views by ISB participants, the consensus was that computer operators should be trained by MOJT. Since the ISB representative from Computer Sciences School (CSS) was not present for this discussion, ISB decided to await his arrival before making a final recommendation.

(b) The Executive Officer, CSS, stressed that there were strong advantages to maintaining an initial entry level course which provided a standard introduction to the Data Systems OccFld. He also emphasized that the screening and assignment functions would have to be done by some other means if the computer operations course is cancelled. The indoctrination and motivation aspects were also covered. The Executive Officer, CSS, indicated that up to a fifty percent cut in the current course length may be feasible.

(c) The ISB discussed the problem of breaking through the psychological barrier of operating the computer console keyboard, and agreed that MOJT was an effective way to deal with it. The ISB acknowledged that some benefit was gained by having an introductory course assist in breaking this barrier, but consensus was that MOJT could do the same.

(d) The ISB participants with OccFld 40 experience were polled to determine when new MOS 4034 Marines were allowed to operate the master console. All responses indicated that currently a substantial period of MOJT was required before new 4034 Marines were assigned as master console operators.

(e) No tasks were assigned for training by CSS for entry level 4034 Marines.

(3) Recommendation. It is recommended that the basic, entry level course (IBM System 360 (OS) Computer Operator Course) for MOS 4034 be reviewed and unnecessary instruction be eliminated. (Primary Action: MOS Specialist; Action: DC/S for Training.)

b. MOS 4034 Tasks Not Selected for Training

(1) Problem. Some tasks in MOS 4034 involve site-unique equipment, extremely simple and easily learned skills, or involve shortly-to-be-replaced items.

(2) Discussion

(a) Three tasks in the computer room maintenance duty area, and seven tasks involving the operation of specific equipment were identified as being of marginal utility/applicability for OccFld-wide training and ITS development. The ISB examined each task in detail. The MOS specialist was asked to address each task from the aspect of becoming obsolete. The MOS analyst provided additional information based on job survey data, and informal contact with OccFld representatives.

(b) All ten tasks were determined to be inappropriate for OccFld-wide applicability or for ITS development. The ten tasks were recommended for deletion from further training analysis. (The tasks were: (1) Monitor Climate Control; (2) Clean Peripheral Devices; (3) Clean All External Surfaces; (4) Operate Sorter; (5) Operate Reproducer; (6) Operate Keypunch; (7) Operate Collator; (8) Operate Paper Tape Punch (OCR); (9) Operate Paper Tape Reader (OCR); and (10) Operate Xerox Minicomputer.

(3) Recommendation. It is recommended that the ten tasks specified not be selected for training or for ITS development. (Primary Action: DC/S for Training.)

c. Entry Level Training for MOS 4038

(1) Problem. There is not a stated policy for the entry level training of Marines in MOS 4038.

(2) Discussion. The ISB and the MOS analyst agreed that the lack of a stated policy for entry level training of Marines in MOS 4038 was in need of correction.

(3) Recommendation. It is recommended that the entry level training for Marines in MOS 4038 be six months MOJT, followed by the Data Control Technician's (DCT) Course at CSS. (Primary Action: MOS Specialist.)

d. MOS 4065 Tasks

(1) Problem. Some MOS 4065 tasks involving ALC language programming are not designated as career level.

(2) Discussion. The ISB discussed this problem in conjunction with the recommendation in the Occupational Analysis Report that MOS's 4063/4065/4066 be retitled. After considerable discussion, the ISB did not reach a consensus on this item. The occupational analysis data could not be used in deciding the validity of this recommendation since the data did not differentiate among the three programming languages used. Subsequent to the ISB, the MOS analyst did not find data to support the change.

(3) Recommendation. It is recommended that some tasks in MOS 4065 not be designated career level. (Primary Action: DC/S for Training.)

e. Tasks For MOS 4069 For Which Training Standards Have Not Been Developed

(1) Problem. No training standards were developed for two tasks (Tune Multi-Virtual Storage (MVS) Operating System and Tune Teleprocessing Network) identified as part of MOS 4069.

(2) Discussion. Insufficient job performance data and complexity of the two tasks resulted in training standards not being developed.

(3) Recommendation. It is recommended that training standards for the two tasks be developed at a later date when more information becomes available. (Primary Action: DC/S for Training.)

f. Task, Install Proprietary Software Products

(1) Problem. An ITS was not developed for this task.

(2) Discussion. This task is dependent upon a variety of vendor supplied software, some of which is copyright. It was determined that developing an individual training standard for this task was uneconomical.

(3) Recommendation. It is recommended that the training standard for this task not be developed. (Primary Action: DC/S for Training.)

g. Task, Generate MVS Operating System

(1) Problem. This task is not tied to a specific point in the MOS 4069 career ladder.

(2) Discussion. There was no consensus on the proposal. The task analyst found no data to support the proposal which was made by one participant of the ISB.

(3) Recommendation. It is recommended that the task be assigned to all grades in MOS 4069. (Primary Action: DC/S for Training.)

h. Data Based Management System (DBMS)

(1) Problem. The DBMS area is new to OccFld 40 and is complex.

(2) Discussion

(a) This area requires attention by the OccFld Sponsor. Officers and enlisted Marines are currently performing the same tasks. Marines with different MOS's are also doing the same tasks.

(b) See paragraph 5b of the Occupational Analysis Report.

(3) Recommendation. It is recommended that guidance on who should perform DBMS tasks be provided by the OccFld Sponsor. (Primary Action: OccFld Sponsor; Action: DC/S for Training.)

i. Task, Operate ADPE-FMF

(1) Problem. The task, Operate ADPE-FMF, was not identified as an OccFld 40 task.

(2) Discussion. The ISB examined this problem and considered the task totally distinct from any programming or other support provided by OccFld 40 Marines. ADPE-FMF is operated routinely by Marines from occupational fields other than Data Systems. The consensus was that the task was not an OccFld 40 task.

(3) Recommendation. It is recommended that the task not be included in the ITS System for OccFld 40. (Primary Action: DC/S for Training.)

j. Vendor Training and Vendor Support

(1) Problem. Units do not have the resources to train Marines in all of the tasks assigned to them to teach (MOJT).

(2) Discussion. The ISB concluded that "vendor training" and "vendor support" were critical to unit MOJT programs. The influx of new hardware, software and procedures makes it essential that unit commanders be able to obtain training and support from vendors.

(3) Recommendation. It is recommended that the ITS's state that commanders may obtain vendor training and vendor support when required. (Primary Action: DC/S for Training.)

k. Tasks Not Assigned To An MOS

(1) Problem. Some members of the ISB disagreed with the assignment of tasks to Marines in some MOS's.

(2) Discussion. During the occupational analysis, the tasks that Marines were performing by grade and MOS were identified. During the ISB, OccFld 40 representatives disagreed with the assignment of some tasks, particularly DBMS tasks. It was felt that Marines were performing tasks that should not be performed by Marines in their grade and MOS.

(3) Recommendation. It is recommended that tasks be assigned based on the occupational analysis until other guidance is provided by competent authority. (Primary Action: MOS Specialist.)

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INSTRUCTIONAL SETTING BOARD ATTENDEES

ROSTER OF ATTENDEES

ORGANIZATION

Col H. V. HOPKINS	CDPA, MCLB, Albany
LtCol R. J. CHAPMAN	CDPA, MCFC, Kansas City
LtCol G. L. DERE BERRY	CSS, MCDEC
Maj D. L. HORTON	2d FSSG, FMFLANT
Mr. Terry FRANUS	MCI, Washington, DC
Mr. Fred ROBERTS	IMD, MCDEC
Capt W. T. MARONEY	FMFPAC, Camp Smith
Mr. A. BOROUGH	CDPA, MCDEC
Capt A. R. WINDHAM	CDPA, MCDEC
LtCol M. S. WYDO	HQMC, TAP-30
LtCol R. J. HOOTON	HQMC, TDE-20
LtCol N. PALER	HQMC, TDA-20
LtCol A. W. POWELL	HQMC, TDG-40
LtCol R. G. CHARLES	HQMC, TDG-20
Maj W. HARLEY	HQMC, TAP-44
Mr. D. W. SUTTER	HQMC, TAP-31
Mr. R. R. WOODS	HQMC, TPI-65
Capt P. W. LEBLANC	HQMC, CCIR-10

TASKS BY DUTY AREA AND RESPONSIBILITY FOR TRAINING

1. Duty Areas for MOS 4034

a. SYSTEMS OPERATIONS

<u>Tasks</u>	<u>Responsible For Training</u>
(1) Operate Master Console	MOJT
(2) Operate Computer Console	MOJT
(3) Operate Tape Drive	MOJT
(4) Operate Disk Drive	MOJT
(5) Operate Card Punch	MOJT
(6) Operate Card Reader	MOJT
(7) Operate Printer	MOJT

b. MAGNETIC MEDIA LIBRARY MANAGEMENT

(1) Process Incoming Tapes	MOJT
(2) Pull Tapes for Mailing	MOJT
(3) Initialize and Label Magnetic Tape	MOJT
(4) Initialize and Label Disk Pack	MOJT
(5) Clean Magnetic Tape	MOJT
(6) Certify Magnetic Tape	MOJT
(7) Pull Scratch Tapes	MOJT
(8) Maintain Alternate Library	MOJT

c. INPUT/OUTPUT CONTROL

(1) Produce Microfiche	MOJT
(2) Operate Xerox Minicomputer*	MOJT
(3) Operate Decollator	MOJT
(4) Operate Burster	MOJT

<u>Tasks</u>	<u>Responsible For Training</u>
d. <u>SCANDATA (SITE DEPENDENT)</u>	
(1) Operate Console (SCANDATA)	MOJT
(2) Operate Tape Drive (SCANDATA)	MOJT
(3) Operate Disk Drive (SCANDATA)	MOJT
(4) Operate Printer (SCANDATA)	MOJT
e. <u>OPTICAL CHARACTER READER (OCR)</u>	
(1) Operate Console (OCR)	MOJT
(2) Operate Tape Drive (OCR)	MOJT
(3) Operate Page Reader	MOJT
f. <u>TELEPROCESSING HARDWARE</u>	
(1) Install/Test Teleprocessing Peripheral Devices	FS
(2) Identify Teleprocessing Systems Failures	FS
(3) Operate COMTEN Console	FS
2. <u>Duty Areas for MOS 4038</u>	
a. <u>CUSTOMER SERVICE</u>	
(1) Provide Customer Assistance	FS
b. <u>PRODUCTION ANALYSIS</u>	
(1) Perform Procedure Optimization	FS
(2) Conduct Annual Review of Computer Operations Manual (OM)	FS
c. <u>PRODUCTION CONTROL</u>	
(1) Produce Daily Schedule	MOJT
(2) Run a Job	FS
(3) Respond to Abnormal Job Termination (ABENDS)	FS

3. Duty Areas for MOS 4063. MOS 4063 is the generic MOS for "applications programmers" which includes the specific MOS's 4063, 4065 and 4066. All training standards assigned to MOS 4063 apply to MOS's 4065 and 4066.

<u>Tasks</u>	<u>Responsible For Training</u>
a. <u>PROGRAMMING</u>	
(1) Write Programs	FS
(2) Write Procedures	FS
(3) Write System	FS
(4) Run Program	FS
(5) Troubleshoot Programs	FS
(6) Delete System	FS
b. <u>INTERNAL PROGRAMMING MAINTENANCE</u>	
(1) Maintain Programmer Library	FS
(2) Maintain Project Status File	MOJT

4. Duty Areas for MOS 4069

a. <u>MULTI-VIRTUAL STORAGE (MVS) OPERATING SYSTEM GENERATION</u>	
(1) Make MVS Generation Checklist	FS
(2) Backup and Restore Disk Packs	FS
(3) Initialize/Analyze Disk Packs	FS
(4) Allocate System Data Sets for MVS System Generation	FS
(5) Code and Assemble Stage I MACROS	FS
(6) Evaluate and Apply Corrective Action to Stage II Job Stream	FS
(7) Code JCL to Assemble and Link- Edit JES-2 Modules	FS

<u>Tasks</u>	<u>Responsible For Training</u>
(8) Code JCL to Update System Libraries	FS
(9) Install Proprietary Software Products**	FS
b. <u>MVS OPERATING SYSTEM MAINTENANCE</u>	
(1) Perform Initial Program Load (IPL)	FS
(2) Use SMP-4 to Receive, Apply, Restore and Reject System Modifications	FS
(3) Tune MVS Operating System***	FS
c. <u>COMTEN TELEPROCESSING GENERATION/MAINTENANCE</u>	
(1) Interpret and Assess Impact of Additions or Modifications to Teleprocessing Hardware and Software	FS
(2) Make Checklist of Teleprocessing Installation Procedures	FS
(3) Allocate System Data Sets for COMTEN Teleprocessing	FS
(4) Modify JCL to Install COMTEN Software Products	FS
(5) Apply COMTEN Software Modifications	FS
(6) Code COMTEN Stage I MACROS	FS
(7) Perform COMTEN Generation Process	FS
(8) Identify COMTEN Teleprocessing Software Failures	FS
(9) Tune Teleprocessing Network***	FS

<u>Tasks</u>	<u>Responsible For Training</u>
d. <u>Data Base Generation</u>	
(1) Load Software ADABAS	FS
(2) Create Data Base	FS
(3) Maintain Data Base	FS
(4) Load Software Natural	FS

* This task will not have a training standard developed. See paragraph 5b of the Training Analysis Survey Report.

** These tasks will have training standards published at a later date.

*** These tasks will not have a training standard developed. See paragraph 5e of the Training Analysis Survey Report.

E. Bowden
recd
15 NOV 84

NEW ADDITIONS AND CHANGES

TO DTIC CONTROLLED

POSTING TERMS

DECEMBER 1984

DTIC-TOS

ACID DEPOSITION

Acidic pollutant compounds of sulfur and nitrogen released into the atmosphere by interaction with sunlight. Commonly called "Acid Rain."

BT RAIN

ACOUSTIC IMAGES

The geometric space figure that is made up of the acoustic foci of an acoustic lens mirror, or other acoustical optic system, and is the acoustic counterpart of an extended source of sound.

BT IMAGES

NT SONAR IMAGES

ACTIVE DEFENSE

The employment of weapons systems to deter, deflect, or otherwise defeat enemy offensive forces. The term commonly connotes defensive forces, such as interceptor aircraft and antiballistic missiles. Limited offense and counterattacks to deny contested area or position.

AERATORS

Equipment used for aeration (supplying or infusion of air).

AERODYNAMIC LIFT

The component of the total dynamic force acting on a body perpendicular to the undisturbed air flow relative to the body. Also know as lift.

BT LIFT

AEROSPACE INDUSTRY

Industry concerned with the use of vehicles in both the earth's atmosphere and space.

BT INDUSTRIES

NT AIRCRAFT INDUSTRY

AGRICULTURAL CHEMISTRY

The science of chemical composition and changes involved in the production, protection, and use of crops and livestock. Includes all the life processes through which food and fiber are obtained for man and his animals, and control of these processes to increase yields, improve quality, and reduce costs.

AIR TO SPACE MISSILES

A missile launched from an aircraft at a space target, such as an earth satellite.

BT GUIDED MISSILES

AIRCRAFT LOFTING

The design and layout, on metal sheets, of full scale drawings of aircraft parts.

ANALYTIC NUMBER THEORY

The study of problems concerning the discrete domain of integers by means of the mathematics of continuity.

ANNULAR FLOW

Ring shaped flow; flow from an annular nozzle.

BT AXIALLY SYMMETRIC FLOW

ANTISATELLITE MISSILES

Missiles whose target is an orbiting satellite.

BT GUIDED MISSILES

AQUICULTURE

Cultivation of natural faunal resources water.

ASSURED DESTRUCTION

A highly reliable ability to inflict unacceptable damage on any opponent or combination of opponents at any time during the course of a nuclear war; even after absorbing a surprise first strike.

BT DESTRUCTION

BATTLE GROUP LEVEL ORGANIZATIONS

A standing naval task force consisting of a carrier, surface combatants and submarines assigned in direct support, operating in mutual support with the task of destroying hostile forces within the assigned area of responsibility.

BIMETALS

Laminates of two dissimilar metals with different coefficients of thermal expansion, bonded together.

BIOTECHNOLOGY

The application of engineering and technological principles to the life sciences, both medical and nonmedical. (Selection and development of superior crops and livestock through cross-breeding techniques using code of genes to design systems on an industrial scale to reproduce life processes and products found in nature).

BLAST RESISTANT SHELTERS

Any structure, natural or manmade, that provides substantial protection against overpressures caused by nuclear explosions. Effectiveness is determined by the yield of the weapon, proximity to ground zero, and durability of the structure.

BT SHELTERS

BOUNDARY LAYER TRIPS

Boundary Layer Control Device

BRAGG SCATTERING

Scattering of X-rays or neutrons by the regularly spaced atoms in a crystal, for which constructive interference occurs only at definite angles called Bragg angles.

CALORIFIC VALUE

Quantity of heat liberated on the complete combustion of a unit weight or unit volume of fuel.

BT CHEMICAL PROPERTIES
 HEAT OF REACTION

CATALYTIC CONFLICT(WARFARE)

War between two countries or coalitions that is deliberately instigated by a third party.

BT WARFARE

CHEMICAL DETECTION

Detection of objects or personnel by observation of their chemical composition.

BT DETECTION

CHEMURGY

A branch of chemistry concerned with the profitable utilization of organic raw materials; especially agricultural products; for nonfood purposes such as paints and varnishes.

CLIMATOLOGY

Branch of meteorology concerned with the mean physical state of the atmosphere together with its statistical variations in both space and time as reflected in the weather behavior over a period of many years.

BT METEOROLOGY
NT MICROCLIMATOLOGY

CLINICAL PSYCHOLOGY

That branch of psychology which specializes in the evaluation and treatment of mental, behavioral and neurologic disorders, as well as research into psychological aspects of such disorders.

BT PSYCHOLOGY

CLONES

All individuals, considered collectively, produced asexually or by parthenogenesis from a single individual.

COMPUTER AIDED MANUFACTURING

The use of computers to communicate work instructions to automate machinery for the handling and processing needed to produce a workpiece.

CONTACT LENSES

A thin lens fitted over the cornea to correct defects of vision.

BT OPTICAL LENSES

CONTRACTORS

One that performs work or provides supplies (on a larger scale) according to a contractual agreement.

COUNTERFORCES(MILITARY)

The employment of strategic air and missile forces to destroy or render impotent, military capabilities of an enemy force. Bombers and their bases, ballistic missile submarines, ICBM silos, ABM and air defense installations, command and control centers, and nuclear stockpiles are typical counterforce targets.

DEFENSE IN DEPTH

Protective measures in successive positions along axes of enemy advance, as opposed to a single line of resistance. Designed to absorb and progressively weaken enemy positions.

DEPRESSED TRAJECTORIES

The flight path of a ballistic missile fired at an angle to the ground significantly lower than standard launches.

BT BALLISTIC TRAJECTORIES

DEVELOPMENTAL PSYCHOLOGY

That branch of psychology that deals with changes in behavior occurring with changes in age.

BT PSYCHOLOGY

DIRECTED ENERGY WEAPONS

Nonnuclear weapon systems utilizing high energy or particle beams.

BT WEAPON SYSTEMS

EGGS(FOOD)

Reproductive cell of certain female animals which may be used as food.

ELECTRONIC MAIL

The electronic transmission of letters, messages and memos through a communications network.

BT DATA TRANSMISSION SYSTEMS

ENGINE GENERATOR SETS

Electrical supply system in which electrical power for a vehicle is supplied by an engine driven generator as an independent source.

BT ELECTRIC POWER PLANTS

EXPERIMENTAL PSYCHOLOGY

The study of psychological phenomena by experimental methods.

BT PSYCHOLOGY

EXTERNAL STORE SEPARATION

Separation of Pods, external protuberances including jettisonable fuel tanks.

FALKLAND ISLANDS

British Colony in South Atlantic Ocean also claimed by Argentina; includes East and West Falkland.

BT ATLANTIC OCEAN ISLANDS

FEED MECHANISMS

Devices by which new supplies are provided when previous supplies are consumed.

NT AMMUNITION FEED MECHANISMS

FERRIES(WATER CRAFT)

A boat which carries people, automotive vehicles, or goods across a river or other body of water, usually traveling back and forth on a regular schedule.

BT BOATS

FIRMWARE

A computer program or instruction, such as a microprogram, used so often that it is stored in a read-only memory instead of being included in software. Often used in computers that monitor production processes.

BT COMPUTER PROGRAMS

FOOD ADDITIVES

A substance added to food during processing to improve color, texture, flavor or keeping qualities. Examples are antioxidants, emulsifiers, thickeners, preservatives, and colorants.

BT ADDITIVES

NT ANTIOXIDANTS
PRESERVATIVES
COLORANTS

FOOD STAMPS

Stamps issued by Federal Government for the purchase of prescribed food stuffs or supplies without official currency.

FREE ELECTRON LASERS

High energy lasers in which the relativistic electron beam energy is converted into optical energy.

BT LASERS

FROUDE NUMBER

A dimensionless number used to study the motion of a body floating on a fluid with production of surface waves or eddies, equal to the ratio of the square of the relative speed to the product of the acceleration of gravity and the characteristic length of the body.

BT RATIOS

GENETIC ENGINEERING

The intentional production of new genes and alteration of genomes by the substitution or addition of new genetic material.

GOVERNMENT FURNISHED EQUIPMENT

Equipment furnished to a contractor by the Government.

GROUND ZERO

A point on the earth's surface directly above, below, or at the precise place where a nuclear weapon is aimed (planned ground zero) or where it explodes (actual ground zero).

GUIDED MISSILE SIGNATURES

The characteristic pattern of a guided missile as displayed by detection and classification equipment.

HABITATS

The place where a plant or animal species naturally lives and grows

HYDRAULIC PRESSURE

Pressure exerted on and by a hydraulic fluid.

HYDRAULICS

Branch of science and technology concerned with the mechanics of fluids; especially liquids.

IMIDAZOLES

One of a group of organic heterocyclic compounds containing a five-membered diunsaturated ring with two nonadjacent nitrogen atoms as part of the ring; the particular compound imidazole is a member of the ring.

BT AZOLES

INBOARD

Toward or close to the longitudinal axis of a ship or aircraft.

INTELLIGENCE(HUMANS)

The ability to learn or understand from experience; ability to acquire and retain knowledge, mental ability.

BT INTELLIGENCE

LAKE HURON

One of the Great Lakes partly in Michigan and partly in Ontario, Canada.

BT GREAT LAKES

LAKE MICHIGAN

One of the Great Lakes between Michigan and Wisconsin.

BT GREAT LAKES

LAKE ONTARIO

Smallest of the Great Lakes between New York and Ontario, Canada.

BT GREAT LAKES

LASER MEDICAL DIAGNOSIS

Medical application of lasers for diagnostic procedures.

LATVIA

Country in Northern Europe.

METAL MATRIX COMPOSITES

BT COMPOSITE MATERIALS

NT EUTECTIC COMPOSITES

MOORED BODIES

A body secured by attaching it to a fixed object or a mooring buoy with chains or lines, or with anchors or other devices.

NAVAL VESSELS(COMBATANT)

Naval vessels(ships) whose main function is combat with the enemy.

BT NAVAL VESSELS

NT AIRCRAFT CARRIERS

AMPHIBIOUS SHIPS

BATTLESHIPS

CRUISERS

DESTROYERS

ESCORT SHIPS

GUIDED MISSILE SHIPS

LANDING CRAFT

MINELAYERS

MINESWEEPERS

PATROL CRAFT

PICKET SHIPS

SEA CONTROL SHIPS

SUBMARINE CHASERS

SUBMARINES

NAVAL VESSELS(SUPPORT)

Naval vessels(ships) whose main function is noncombatant services and support of naval operations.

NT TANKER SHIPS
TENDERS(VESSELS)
NUCLEAR POWERED SHIPS
TRANSPORTS

NAVAL WARFARE

Military operations by naval ships of combat.

BT WARFARE
NT ANTISHIP WARFARE
NAVAL MINE WARFARE

ORCHARDS

A group of fruit-bearing; nut-bearing; or sugar maple trees under cultivation.

BT PLANTS(BOTANY)

OVER THE HORIZON RADAR

Surveillance radar whose signal hugs the earth's surface for distances well beyond the line-of-sight, bouncing off the ionosphere and return to earth in saw-toothed waves to a receiver on the far side of the globe.

OVER THE HORIZON TARGETING

BT TARGETING

PARAGUAY

A country in Central South America.
BT SOUTH AMERICA

PARTICLE BEAM WEAPONS

Nonnuclear weapons using a stream of high velocity particles or atomic and subatomic particles, excluding simulators for nuclear weapon-provided effects.

BT DIRECTED ENERGY WEAPONS

PATHOPHYSIOLOGY

The functional changes that accompany a particular syndrome or disease.

BT PHYSIOLOGY

PLANETARY GEARS

An assembly of meshed gears consisting of a central gear, a coaxial internal or ring gear, and one or more intermediate or pinion gears supported on a revolving carriers.

BT GEARS

PLANT PROPAGATION

A natural reproduction or production of young plants
BT PROPAGATION

POLYIMIDE PLASTICS

A high polymer with an imide group in its polymer chain.
BT PLASTICS

POSTWAR

After the (or a) war.

PROJECTILE COMPONENTS

Incremental parts of a projectile.

BT AMMUNITION COMPONENTS
NT PROJECTILE CAPS
PROJECTILE CASES
PROJECTILE FUZES
PROJECTILE NOSES

PROJECTILE NOSES

The foremost point or section of a projectile bomb or missile.
BT PROJECTILE COMPONENTS

PSYCHOMETRICS

The mathematical and statistical treatment of psychological data.

RADAR COUNTERMEASURES

An electronic countermeasure used against enemy radar, such as jamming and confusion reflectors.

BT ELECTRONIC COUNTERMEASURES

RADAR FACES

The window of a phased array radar oriented in a particular direction. (No single window provides 360 degree coverage, but several on a single set can.)

RADAR FANS

Area covered by any given radar's surveillance and/or tracking capabilities as a product of range and set characteristics.

RADIO COUNTERMEASURES

Electrical or other techniques depriving the enemy of benefits which would ordinarily accrue to him through the use of any technique employing the radiation of radio waves. It includes benefits derived from radar and intercept services.

BT ELECTRONIC
COUNTERMEASURES

REAR AREAS

The area in the rear of combat and forward areas.

SABOTS

Lightweight carrier in which a subcaliber projectile is centered to permit firing the projectile in the larger caliber weapon; the sabot diameter fills the bore of the wapon from which the projectile is fired.

SATELLITE PHOTOGRAPHY

Spaceborne photography from a satellite.

BT PHOTOGRAPHY

SHORT WAVELENGTHS

Applied to wavelengths shorter than 200M corresponding to frequencies higher than the highest broadcast frequency.

SILVICULTURE

The theory and practice of controlling the establishment, composition, and growth of stands of trees for any of the goods and benefits that they may be called upon to produce.

SLED TESTS

SONAR IMAGES

Geometric space figures of an acoustic optical system generated and composed of acoustic foci.

BT ACOUSTIC IMAGES

STANDOFF MISSILES

An air-to-surface missile carried by strategic bombers for air defense suppression purposes or to strike primary targets.

BT AIR TO SURFACE MISSILES

STRATEGIC WARNING

Notification that enemy offensive operations of any kind may be imminent.

BT WARNING SYSTEMS

SUPERCOMPUTERS

A computer which is among those with the highest speed, largest functional size, biggest physical dimensions, or greatest monetary cost in any given period of time.

BT COMPUTERS

SURFACE ZERO

The point at which a nuclear weapon is aimed at or explodes over, under, or on water.

TACTICAL WARNING

Notification that enemy offensive operations of any kind are in progress.

BT WARNING SYSTEMS

TANTALUM CARBIDES

TAC - Hard chemical-resistant crystals melting at 3875 degrees centigrade used in cutting tools and dies.

BT CARBIDES

TILT ROTOR AIRCRAFT

Aircraft using rotors which may be tilted horizontally and vertically.

BT VERTICAL TAKEOFF AIRCRAFT

ROTARY WING AIRCRAFT

TILT WING AIRCRAFT

Aircraft in which a portion of the wings can be varied from horizontal to vertical permitting operation as rotor blades or propeller blades.

BT AIRCRAFT

TITANIUM ALUMINIDE

Intermetallic compound of titanium and aluminum. It melts at 2660F and its crystal structure is tetragonal.

BT ALUMINIDES

TITANIUM COMPOUNDS

TORPEDO TARGETS

Mobile targets at which a real or simulated torpedo attack is directed.

BT TARGETS

ULTRAVIOLET DETECTION

Detection by ultraviolet radiation.

BT DETECTION

ULTRAVIOLET PHOTOGRAPHY

Photography in which the subject is illuminated with ultraviolet light and either the resulting fluorescence (in the fluorescent method) or the reflected ultraviolet light (in the reflected ultraviolet method) is detected by the camera.

BT PHOTOGRAPHY

ULTRAVIOLET SIGNATURES

Characteristic pattern of the ultraviolet radiation of a target as displayed by detection equipment.

WING LEVEL ORGANIZATIONS

An AF unit or establishment on a level of command above a group and below an Air Force or Air Division.

BT ORGANIZATIONS

CHANGES:

I. The following posting terms were changed from singular to plural (for consistency):

1. Crash Landing to Crash Landings
2. Geological Survey to Geological Surveys
3. Lunar Landing to Lunar Landings
4. Vertical Landing to Vertical Landings

II. The following changes to Posting Terms were spelling:

1. Arachnids to Arachnida
2. Eniwetok Atoll to Enewetok Atoll
3. Platyhelminths to Platyhelminthes

III. For consistency throughout the controlled vocabulary; the term parts was changed to components:

1. Compressor Parts to Compressor Components
2. Electron Tube Parts to Electron Tube Components
3. Turbine Parts to Turbine Components
4. Similarly Pneumatic Devices was changed to Pneumatic Equipment

IV. To conform to a change in military concepts; military dependents was changed to family members.

USE REFERENCES

1. Aircraft Flight Instrumentation

Use Flight Instruments

2. Biological Oceanography

Use Marine Biology

3. Cartography

Use Mapping

4. Combatant Ships

Use Naval Vessels (Combatant)

5. Computer Aided Lofting

Use Aircraft Lofting and Computer Applications

6. Dryness

Use Moisture Content

7. Eigenfunctions

Use Eigenvectors

8. Electrical Resistivity

Use Electrical Conductivity

9. Exoatmosphere

Use Exosphere

10. Group Theory (Mathematics)

Use Groups (Mathematics) and Theory

11. Hydroacoustics

Use Underwater Acoustics

12. Hydromagnetics

Use Magnetohydrodynamics

END

UNLIMITED

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DTIC