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1401 Computer Program Documentation For Behavioral Tasks

Working Paper 101B27.100

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Atlantic ASW System

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COMMANDER ANTISUBMARINE WARFARE FORCE
UNITED STATES ATLANTIC FLEET
Norfolk, Virginia 23511

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Ser 240 /714
4 April 1968

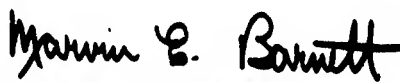
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Encl: (1) McLaurin, J. A. "1401 Computer Program Documentation for Behavioral Tasks," COMASWFORLANT Working Paper 101B27.100

1. Reference (a) established a Coordinated Human Factors Program supported by a small computer application team for the storage and retrieval of ASW human performance data. This paper documents the ADP procedures used to collect and print the officer and enlisted data from the Bureau of Naval Personnel for those ASW sensor personnel assigned to the Atlantic ASW System.
2. Each section of this paper is designed to serve different functions and readers. A general nontechnical view of the operational capability of the ADP system can be gained by reading the Functional Description section. Professional research personnel will find their requirements are best met by reading the Data Requirements Document and System Specification sections. Computer programmers and operating technicians will find the Program Specification and Operations Manual sections the most useful.
3. Enclosure (1) is forwarded for information and retention.


MARVIN E. BARNETT
Chief of Staff

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**1401 COMPUTER PROGRAM
DOCUMENTATION FOR BEHAVIORAL TASKS**

Working Paper 101B27.100

by

John A. McLaurin

**Commander Antisubmarine Warfare Force
United States Atlantic Fleet
Norfolk, Virginia 23511
April 1968**

PREFACE

This paper was written to support the Commander Antisubmarine Warfare Force, U. S. Atlantic Fleet human performance data collection, analysis, storage, and retrieval. program.

Funding is under Chief of Naval Operations (Op-95) and Office of Naval Research PO8-0037 of 1 August 1967.

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The assistance given to COMASWFORLANT by the Assistant Chief of Naval Personnel for Management Information (Pers-N) in the retrieval of selected records contained in the Bureau of Naval Personnel data bank is gratefully acknowledged. This supportive relationship is proving to be more valuable to COMASWFORLANT because of the aperiodic updating requirements of the ASW Human Performance Data Bank.

The programming of the PS-03 program, which is in reality the first updating change to the basic program, was completed by Mrs. P. P. Mason. This valuable addition will enable the several Scientific Advisory Teams in the Atlantic ASW System to use the most current retrieval program in their demographic analyses.

ABSTRACT

This paper was written to document the ADP procedures used to collect and print the Officer and Enlisted data from BUPERS for those ASW sensor and weapons personnel assigned to COMHUKFORLANT, COMFAIRWINGSLANT and COMOCEANSYSLANT. Each section of this paper is designed to be informative at different levels.

The Functional Description reflects the initial analysis of the system and defines the operational capability to be developed without going into the details of each individual operation. An overall non-technical view of the system may be obtained by reading this section.

The Data Requirements Document defines the data elements used within the system. This section gives detailed information about inputs and outputs of the system.

The System Specification is a more detailed documentation of the entire system. Detailed requirements are given for program design and the system environment is described.

The Program Specification describes program design so as to permit program production. Each program within the system is defined in a separate Program Specification and only information pertaining to that program and how it relates to other operations within the system is presented in these sections. Program listings are included in this section.

The Operations Manual documents the operating procedures necessary to operate each function within this system. Instructions are given for initiating, running, terminating, interrupting and re-starting each function within the system.

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Functional Description
101B27.100
FD-01

1. General

1.1 Purpose of Functional Description. The Functional Description for Project 101B27.100 is written to fulfill the following objectives:

- (a) To provide in writing the system requirements as a basis for mutual understanding between user and developer.
- (b) To provide a definition of performance requirement, preliminary design, and user impacts.
- (c) To provide a basis for the development of system test.

1.2 Project Reference. The Active Duty Enlisted/Officer Master Magnetic Tape Record Print Procedure, Project No. 101B27.100, objective is to acquire from BUPERS the Active Duty Enlisted/Officer Master Magnetic Tape Record file for enlisted and officer personnel in COMHUKFORLANT, COMFAIRWINGSLANT and COMOCEANSYSLANT and provide the Scientific Advisory Teams at these commands with a detailed list of this file.

1.3 Applicable Documents.

- (a) Manual of the Active Duty Enlisted Master Magnetic Tape Record, NAVPERS 15, 949A Oct 1962.
- (b) Manual of the Active Duty Officer Master Magnetic Tape Record, NAVPERS 15, 921A May 1965.
- (c) BUPERS ltr Pers-N103-PA of 13 Nov 1967. Manual of the Active Duty Officer Automated Record (Preliminary Revision to NAVPERS 15, 921A).
- (d) COMASWFORLANT OPORDER 71-(YR).
- (e) COMASWFORLANT ltr ser 71/71 of 6 Feb 1968.

2. Scope

2.1 General System Description. This system will contain four major steps.

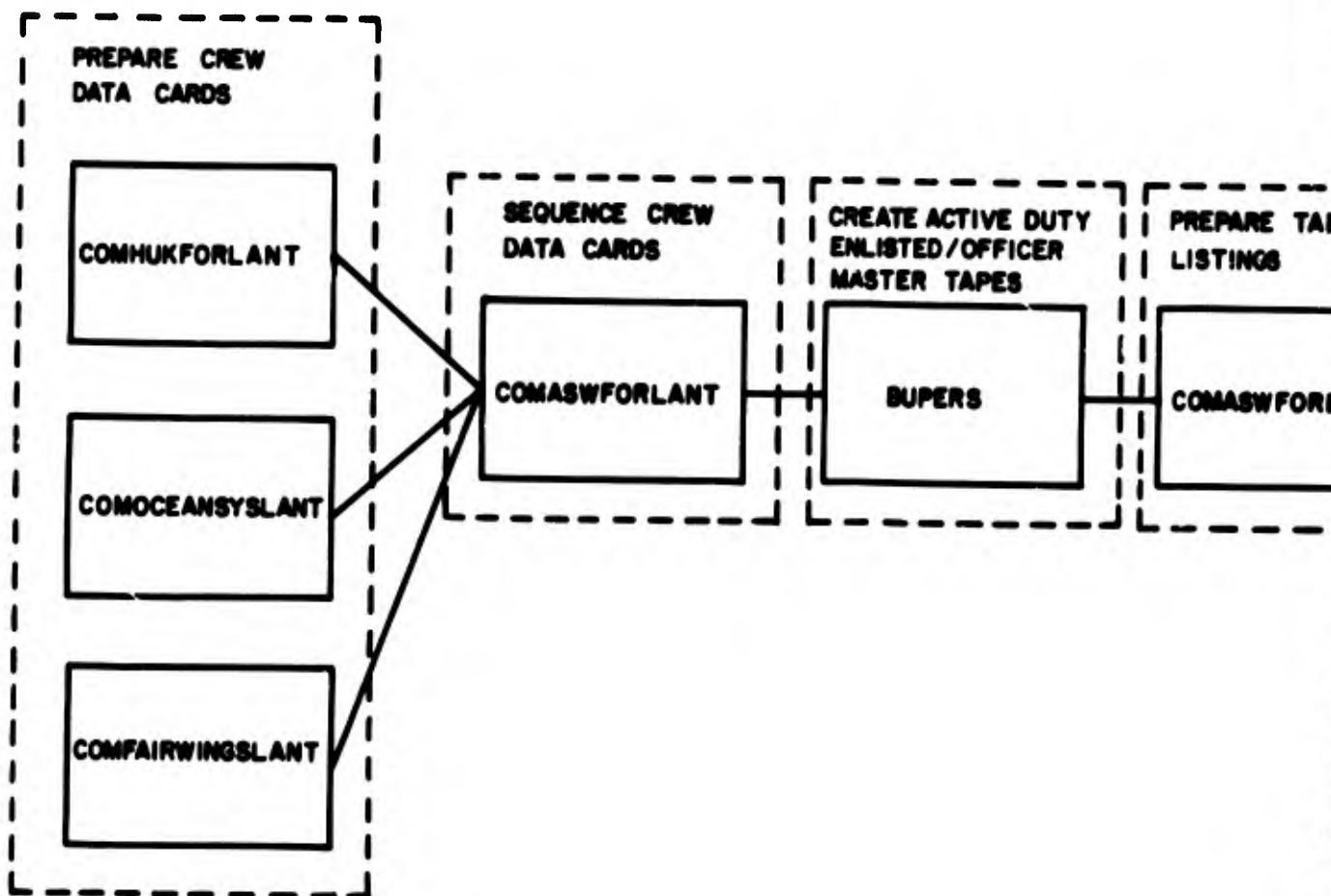
- (a) Preparation of crew data cards from crew list by the three commands in paragraph 1. 2.
- (b) Sorting crew data cards into service number sequence by COMASWFORLANT.
- (c) BUPERS processing of crew data cards and producing Active Duty Enlisted/Officer Master Magnetic Tape Records for those service numbers contained in these cards.
- (d) COMASWFORLANT producing a detailed printout of the Active Duty Enlisted/Officer Master Magnetic Tape Record file.

2.2 Existing Methods and Procedures. Not applicable.

2.3 Proposed Methods and Procedures. The three commands named in paragraph 1. 2 will provide COMASWFORLANT with a deck of crew data cards produced from their crew list. When the crew cards are received in COMASWFORLANT they will be sorted into service number sequence and sent to BUPERS. BUPERS will furnish a tape containing the Active Duty Enlisted/Officer Master Magnetic Tape Record for those enlisted men and officers included in the crew decks. Upon receiving the Active Duty Enlisted/Officer Master Record tape from BUPERS, COMASWFORLANT will produce a detailed printout by command and send a copy to the appropriate command.

2.3.1 Summary of Improvements. The tape and list produced by this system will provide the Scientific Advisory Team members of each command with a list of the enlisted and officer personnel within their commands. This list will indicate to the Scientific Advisory Team members what information is available on this tape for future statistical and analytical reports. After the original review of this tape by each command the list of the entire tape will be produced only on request.

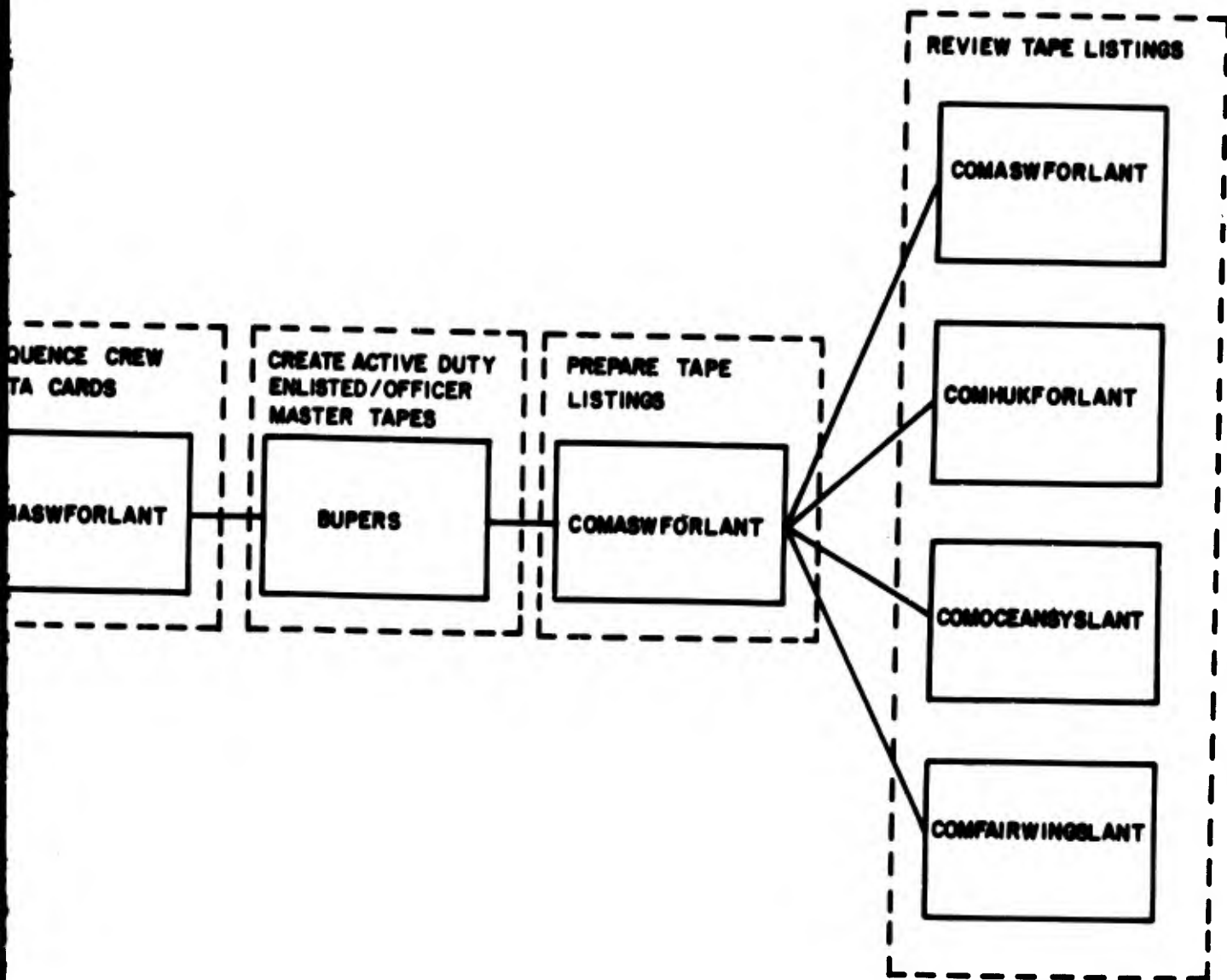
2.3.2 Summary of Impacts. This system will require no additional equipment. This system will be run quarterly and will require the following machine times:



SYSTEM ORGANIZATION CHART

1-3

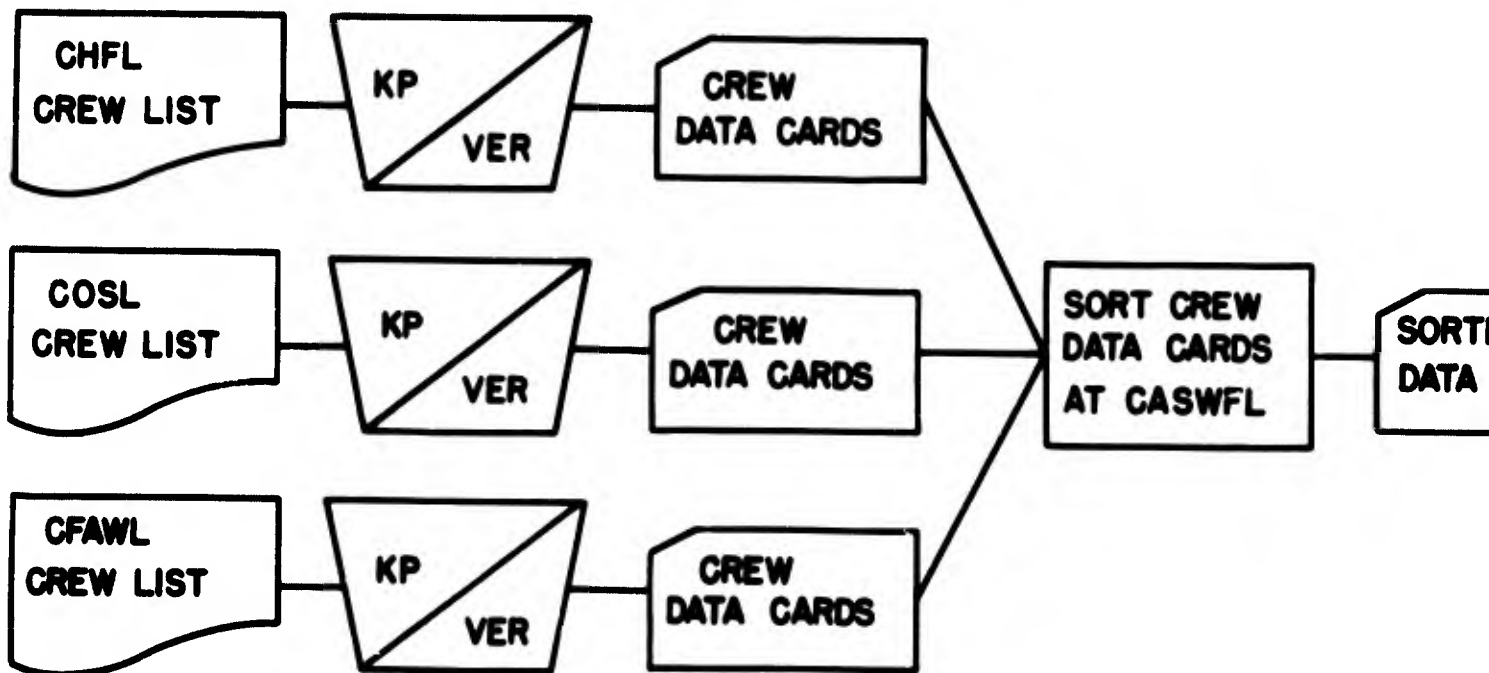
A



SYSTEM ORGANIZATION CHART

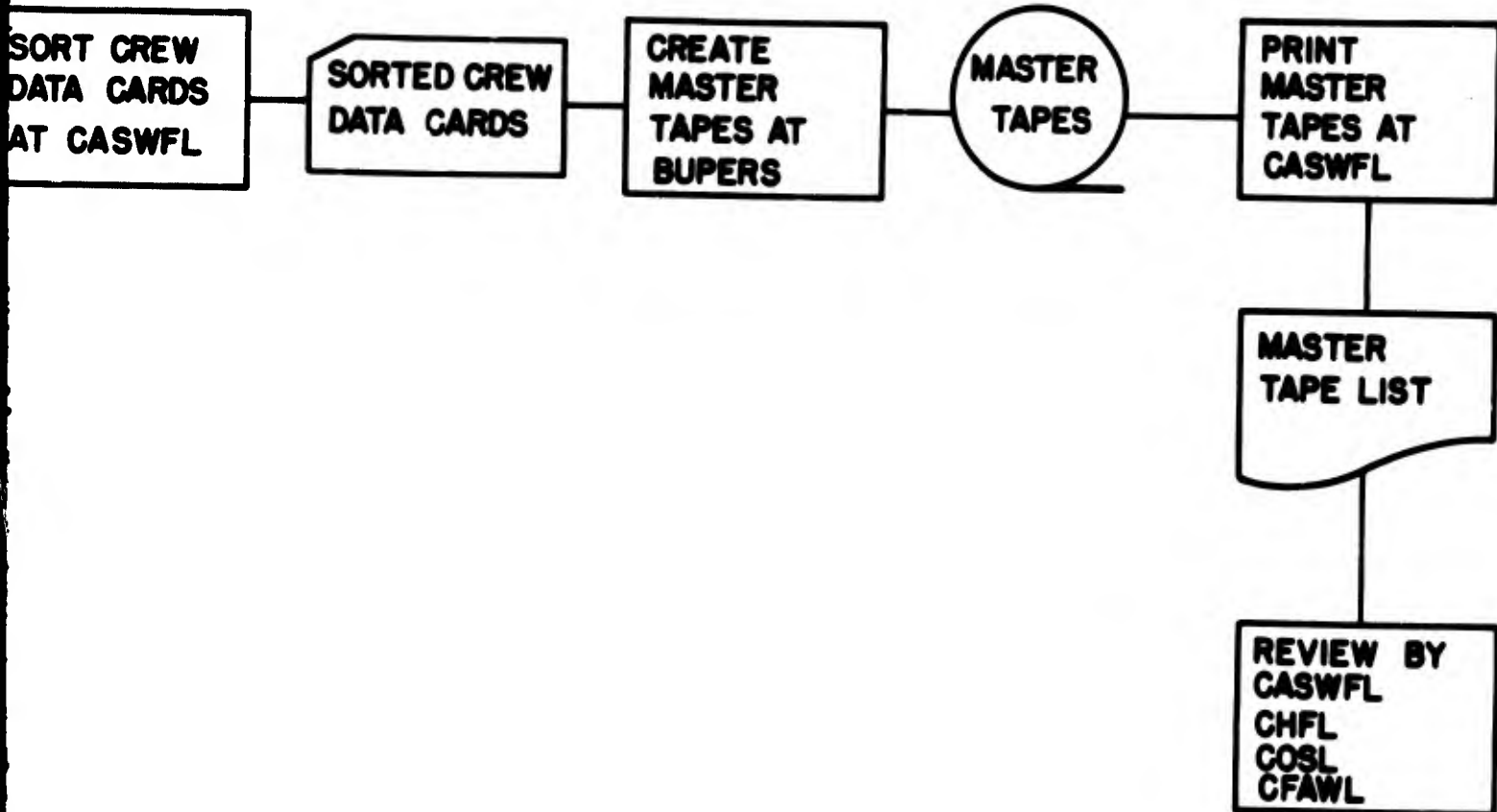
1-3

B



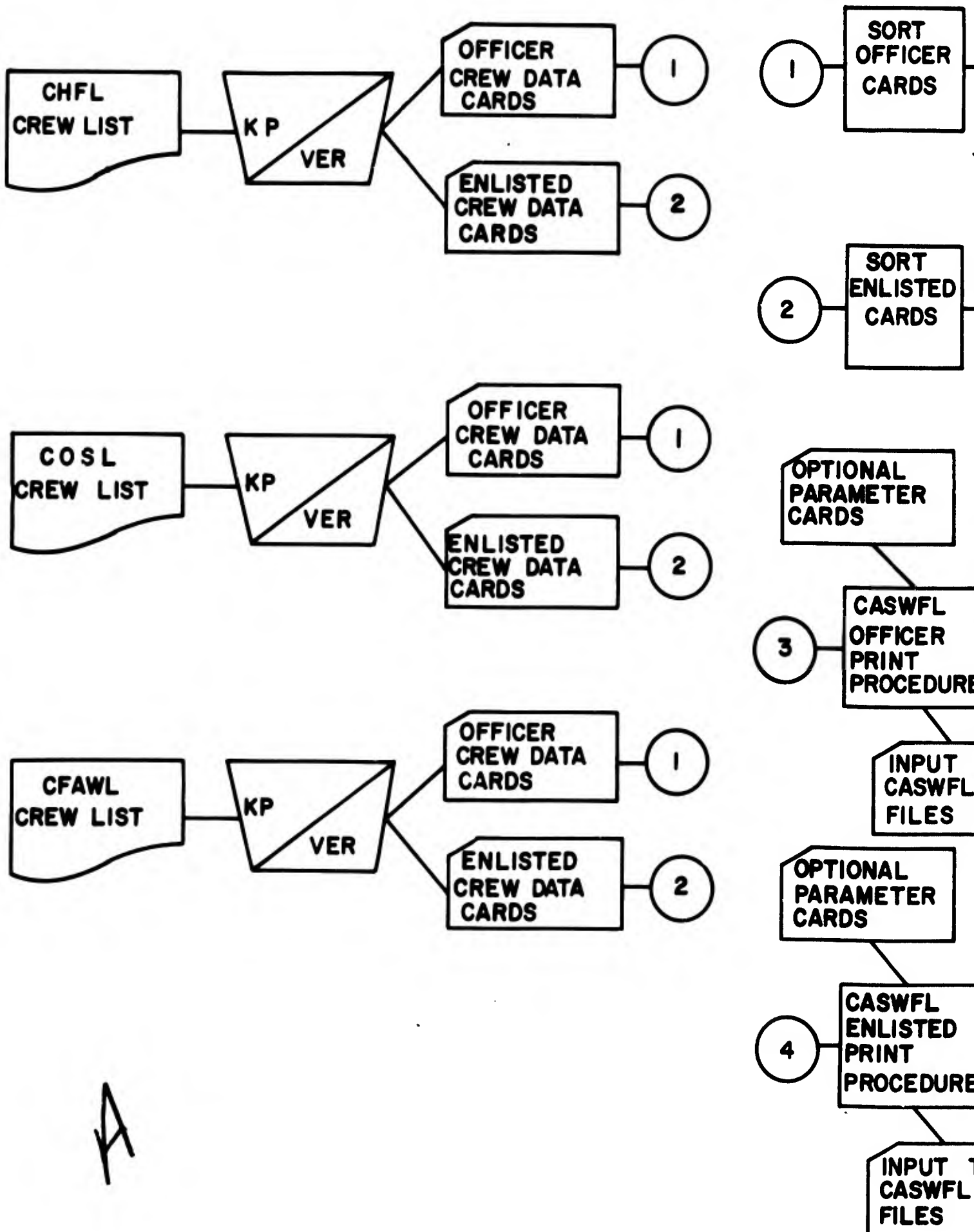
SYSTEM INFORMATION FLOW CHART

A

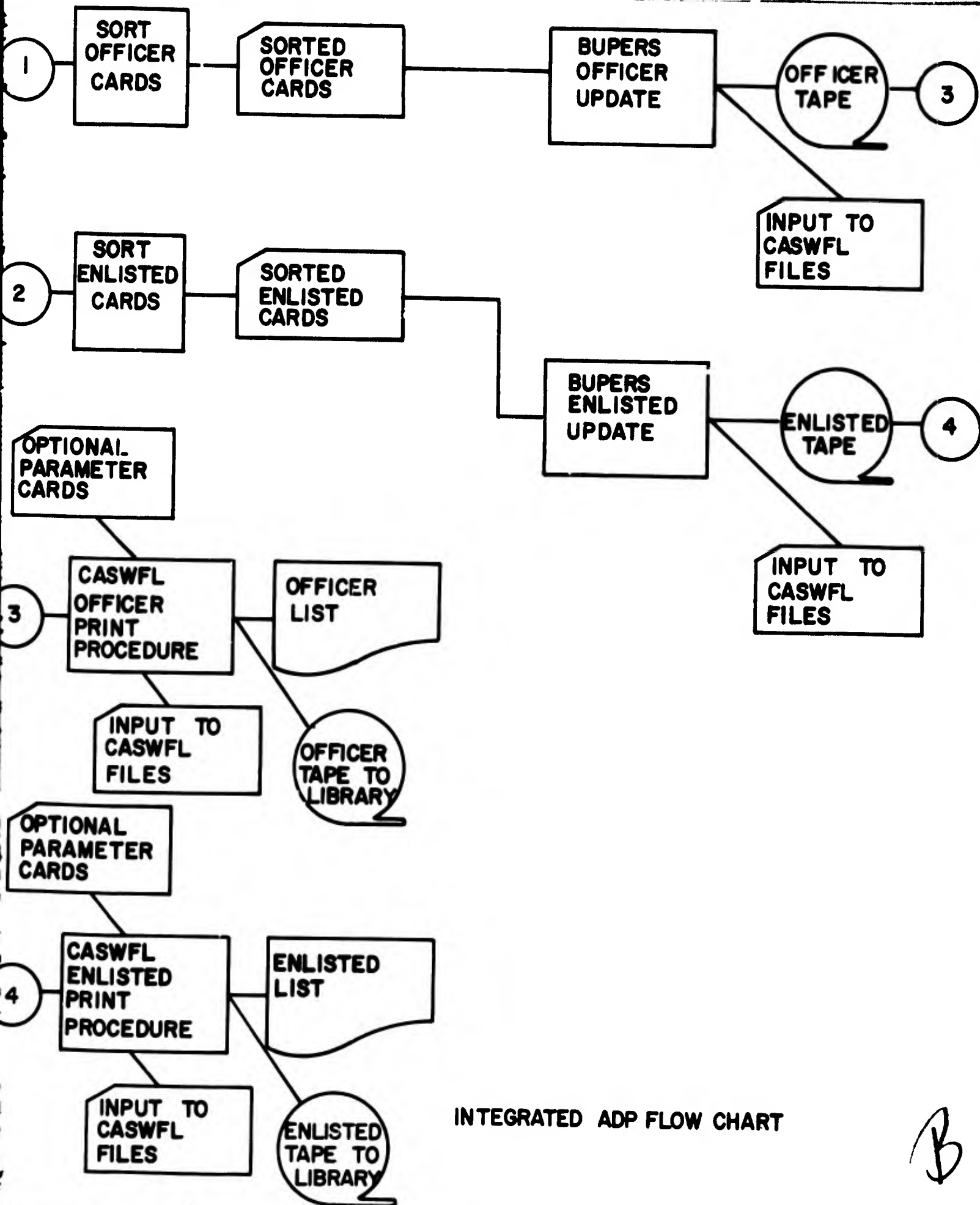


LOW CHART

B



A



INTEGRATED ADP FLOW CHART

B

084 sorter - 3 hours

1401 computer with one printer and one tape drive - 20 hours

These times are based on an estimate of 12,000 records. Each of the three commands named in paragraph 1.2 will require from six to twelve hours of keypunch and verifier time to prepare the crew data cards that are to be sent to BUPERS.

2.3.3 Specific Performance Requirements.

- (a) Crew data cards will be prepared in BUPERS format.
- (b) Crew data cards will be sorted into service number sequence.
- (c) The program to print the Active Duty Enlisted/Officer Master Magnetic Tape Record will provide for the following:
 - (1) A tape header label check routine.
 - (2) A tape read error routine that will print incorrectable read errors.
 - (3) A wrong length record check that will print records of incorrect length.
 - (4) A routine to bypass padded records (all 9's).
 - (5) A routine to select only records matching card input for printing.
 - (6) A routine to select all records for printing.
 - (7) A print routine to give a detailed printout of all pertinent fields within the record with appropriate headings.
 - (8) A program interrupt and restart routine.

2.3.4 System Function. The three commands named in paragraph 1.2 will produce crew data cards from their crew list. These cards will be sent to BUPERS where they will be matched against the Active Duty Enlisted/Officer Master Magnetic Tape Record and a tape file created of those matching records. This tape file will then be sent to COMASWFOR-LANT and a detailed printout made.

2.3.5 Data Base Magnitude. There will be five data elements used within this system:

- (a) Crew data cards. There should not be more than 12,000 cards per quarter in this file. These cards will be retained at least one full quarter.
- (b) Active Duty Enlisted Master Magnetic Tape Records. This record will be 500 characters in length and blocked by five on tape. There should not be more than 10,000 records in this file. When this file is produced for all commands at one time the entire file should be contained on one reel of tape, however, it is likely that this data will be obtained for each command separately. This will necessitate the use of three reels of tape, one for each command each quarter.
- (c) Enlisted Active Duty Record Printout. This is a detailed printout of the Active Duty Enlisted Master Magnetic Tape Record. There will be one page per record and the entire printout should not be larger than 10,000 pages per quarter.
- (d) Active Duty Officer Master Magnetic Tape Record. There are two formats for this tape. The old format, prior to March 1968, and the new format, March 1968 and after. The old format is 1,000 characters in length. The new format is 1,121 characters in length. When this file is produced for all commands at one time the entire file should be contained on one reel of tape and contain approximately 2,000 records. If this file is produced individually for each command, three reels of tape will be required for storage per quarter.
- (e) Officer Active Duty Record Printout. This is a detailed printout of the Active Duty Officer Master Magnetic Tape Record. There will be one page per record and the entire printout should not be larger than 2,000 pages per quarter.

2.3.6 Outputs

- (a) Active Duty Enlisted Master Magnetic Tape Record.
- (b) Active Duty Officer Master Magnetic Tape Record.
- (c) Enlisted Active Duty Record Printout.
- (d) Officer Active Duty Record Printout.

2.3.7 Accuracy and Validity. Care should be taken by each command to insure that a source card has been produced for each enlisted man and officer within their command and that these source cards contain valid data. The source card supplied by these commands will provide BUPERS with the control information needed to produce the Active Duty Enlisted/Officer Master Magnetic Tape Record file. Invalid data in the source cards will produce an invalid tape file.

2.3.8 Timing. Throughput time for each phase of this system, with the exception of that phase to be done by BUPERS, is outlined in paragraph 2.3.2. Crew data source cards will be sent to BUPERS by the 10th of the month in which they are to be processed as these cards are included in their normal monthly processing of the Active Duty Enlisted/Officer Master Magnetic Tape Record.

2.3.9 Failure Contingencies. Not Applicable.

3. Environment.

3.1 Equipment Environment.

- (a) One central processing unit.
- (b) One tape unit.
- (c) One on line printer.
- (d) One on line card reader.
- (e) One card sorter.
- (f) Each command must have access to at least one keypunch.
- (g) Each command must have access to at least one verifier.

3.2 Software Environment.

- (a) One IBM autocoder compiler with ZZERRR macro.

3.3 System Interface. The source cards produced by the three commands are sent to BUPERS and are used as inputs in the monthly

update of the Active Duty Enlisted/Officer Master Magnetic Tape Record. These source cards do no actual updating,, but a tape is produced containing all Active Duty Enlisted/Officer Master Magnetic Tape Records that match the source cards. This tape is sent to COMASWFORLANT and a detailed printout is produced. The source cards are unclassified. The Active Duty Enlisted/Officer Master Magnetic Tape Record is also unclassified but should be handled on an official "need to know" basis.

3.4 Security. The data in this system is unclassified but should be distributed only on a "need to know" basis.

Data Requirements Document
101B27.100
RD-01

1. General

1.1 Purpose and Scope of Data Requirements Document. The objectives of writing a Data Requirements Document for Project 101B27.100 are to list and define data elements which the system must handle and to communicate data requirements to the user for support in the data collection activity. The user will need to supply only a deck of data cards containing the name and service number of the enlisted men and officers within their command, however, all data elements used in this system will be described.

1.2 Project Reference. The Active Duty Enlisted/Officer Master Record Print Procedure, Project No. 101B27.100, objective is to acquire from BUPERS the Active Duty Enlisted/Officer Master Magnetic Tape Record file for enlisted personnel and officers in COMHUKFORLANT, COMFAIRWINGSLANT and COMOCEANSYSLANT and provide the Scientific Advisory Teams at these commands with a detailed list of this file.

1.3 Applicable Documents.

- (a) The Active Duty Enlisted/Officer Master Magnetic Tape Record Print Procedure Functional Description.
- (b) Manual of the Active Duty Enlisted Master Magnetic Tape Record NAVPERS 15, 949A Oct 1962.
- (c) Manual of the Active Duty Officer Master Magnetic Tape Record NAVPERS 15, 921A May 1965.
- (d) BUPERS ltr Pers-N103-PA of 13 Nov 1967. Manual of Active Duty Officer Automated Record (Preliminary Revision to NAVPERS 15, 921A).
- (e) COMASWFORLANT OPORDER 71-(YR).

1.4 Modification of Data Requirements. Not applicable.

2. Data Description
 - 2.1 Logical Organization of Static System Data.
 - (a) Crew data cards.
 - 2.2 Logical Organization of Dynamic Input Data.
 - (a) Active Duty Enlisted Master Magnetic Tape Record.
 - (b) Active Duty Officer Master Magnetic Tape Record.
 - 2.3 Logical Organization of Dynamic Output Data.
 - (a) Active Duty Enlisted Master Magnetic Tape Record.
 - (b) Active Duty Officer Master Magnetic Tape Record.
 - (c) Enlisted Active Duty Record Printout.
 - (d) Officer Active Duty Record Printout.
 - 2.4 Internally Generalized Data. Not applicable.
 - 2.5 System Data Constraints. This system will produce only an Active Duty Enlisted/Officer Master Magnetic Tape Record file and a detailed list of these files for those enlisted personnel and officers in the commands named in paragraph 1.2. These files may then be used in other systems to produce statistical and analytical reports. These files will contain approximately 12,000 records on two reels of magnetic tape when produced for all commands at the same time. It is anticipated, however, that this file will be created on an individual basis for each command each quarter and will require eight reels of magnetic tape, two for each command.
3. User Support Required for Data Collection.
 - 3.1 Data Collection Requirement and Scope. Each command named in paragraph 1.2 will submit a deck of crew data cards containing service number, name and constants in the following format for each enlisted man and officer on the crew list.

Column	Enlisted	Column	Officer
1-7	Service Number	1-6	Service Number
8	Blank	7-38	Blank
9-13	99999	39-56	Last, first and middle name
14-29	Blank	57-80	Blank
30-32	"INQ"		
33-38	Blank		
39-56	Last, first and middle name		
57-62	Blank		
63-67	"E145*"		
68-73	999999		
74-80	Blank		

A tape, containing one record for each of the cards described in the preceding paragraph, will be created by BUPERS in the format outlined in the Manual of the Active Duty Enlisted Master Magnetic Tape Record NAVPERS 15, 949A, Oct 1962 and the Manual of the Active Duty Officer Master Magnetic Tape Record. For those officer records received after March 1968 refer to BUPERS letter Pers-N103-PA of 13 Nov 1967. Each command will receive a detailed printout of this tape containing those enlisted personnel and officers under their command.

3.2 Recommend Source of Input Data.

- (a) A crew data deck, as described in paragraph 3.1, will be produced by each command named in paragraph 1.2.
- (b) BUPERS will produce a tape file with the Active Duty Enlisted/Officer Master Magnetic Tape Record for each person in the data deck described in paragraph 3.1.

3.3 Data Collection and Transfer Procedures.

- (a) Each command named in paragraph 1.2 will submit quarterly, as requested, the data deck described in paragraph 3.1 to COMASWFORLANT Scientific Advisory Team.
- (b) COMASWFORLANT will send these data cards to BUPERS. This data must be sent to BUPERS before the 10th of the month in which processing is desired.

- (c) BUPERS will send the Active Duty Enlisted/Officer Master Magnetic Tape Records that match the above data cards to COMASWFORLANT.
- (d) COMASWFORLANT will list this tape and distribute the list to the appropriate commands.

3.4 Data Base Impacts. The preparation of the data deck described in paragraph 3.1 will impose from six to twelve hours of keypunching and verification time upon each command.

System Specification
101B27.100
SS-01

1. General

1.1 Purpose of System Specification. The System Specification for Project 101B27.100 is written in fulfillment of the following objectives.

- (a) To communicate details of the on-going analysis to the user operational personnel for their information, not concurrence.
- (b) To allow early completion of the FD by deferring detailed definition of the system functions to this document.

1.2 Project Reference. The outputs of the Active Duty Enlisted/Officer Master Magnetic Tape Record Print Procedure, Project 101B27.100, will be analyzed by the Scientific Advisory Teams at COMHUKFORLANT, COMFAIRWINGSLANT and COMOCEANSYSLANT to determine what future application may be made of these data.

1.3 Applicable Documents.

- (a) The Active Duty Enlisted/Officer Master Magnetic Tape Record Print Procedure Functional Description.
- (b) The Manual of the Active Duty Enlisted Master Magnetic Tape Record, NAVPERS 15, 949A Oct 1962.
- (c) The Enlisted Active Duty Master Record Print Procedure Data Requirements Document.
- (d) BUPERS ltr Pers-N103-PA of 13 Nov 1967. Manual of Active Duty Officer Automated Record (Preliminary Revision to NAVPERS 15, 921A).
- (e) COMASWFORLANT OPORDER 71-(YR).

2. Scope

2.1 System Description. This utility system will produce an Active Duty Enlisted/Officer Master Magnetic Tape Record file and list for those enlisted men and officers in COMHUKFORLANT, COMFAIRWINGSLANT and COMOCEANSYSLANT.

2.2 System Functions. Each of the three commands named in paragraph 2.1 will produce a deck of data cards from their crew list. These data cards will then be sorted into service number sequence by COMASWFORLANT and forwarded to BUPERS. BUPERS will produce a tape file containing the Active Duty Enlisted/Officer Master Magnetic Tape Record for each service number in the crew data deck. This tape will be forwarded to COMASWFORLANT where it will be printed in detail. A copy of this printout will be sent to the appropriate command.

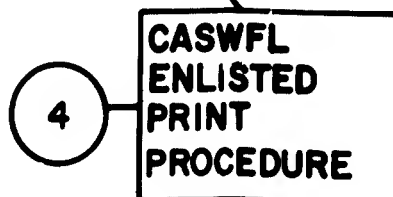
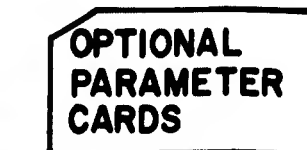
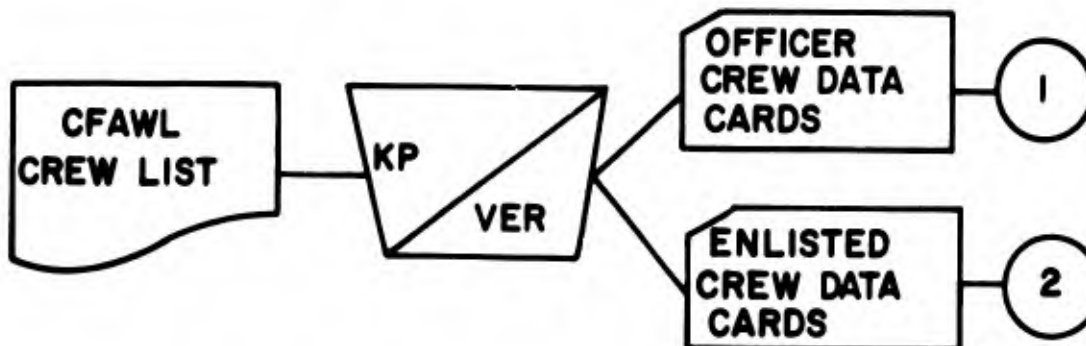
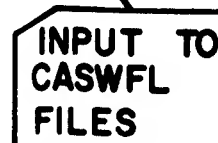
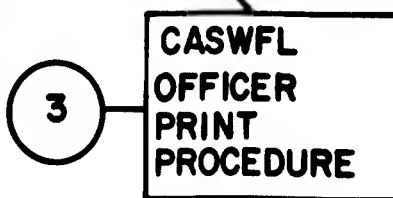
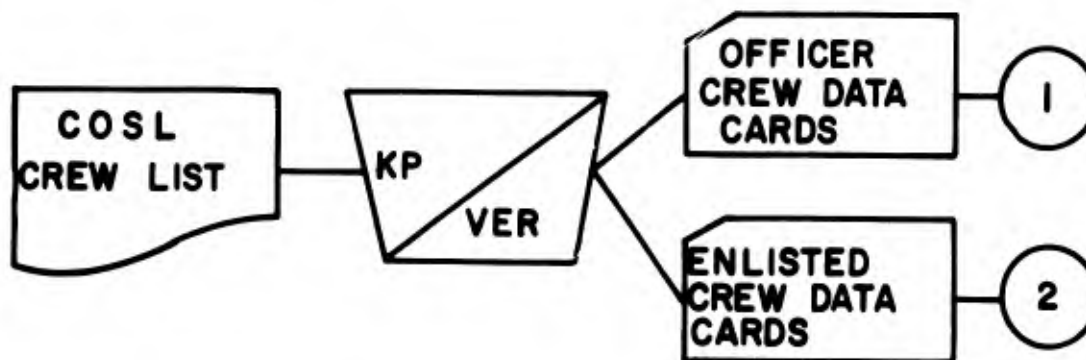
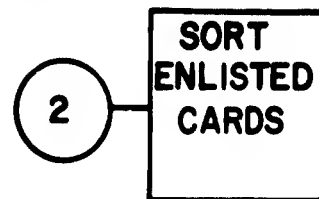
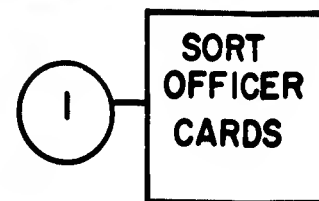
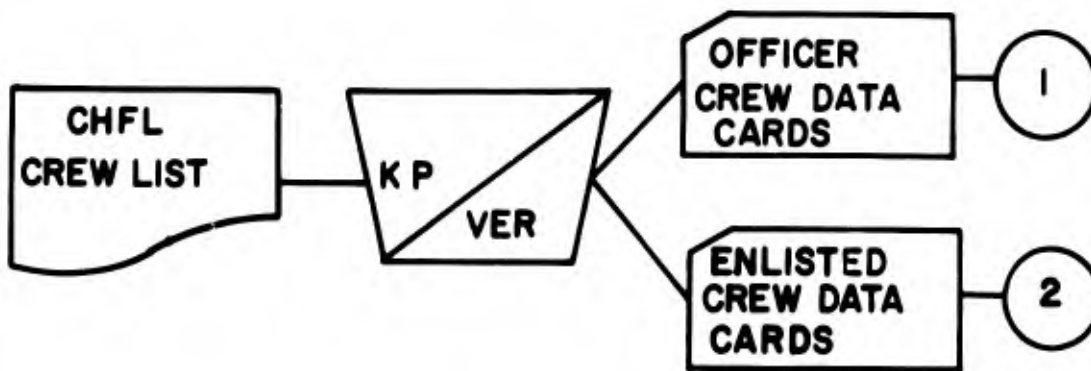
2.3 Physical Description. The three commands named in paragraph 2.1 will keypunch and verify crew data cards from their crew lists. COMASWFORLANT will sort these cards and send them to BUPERS. BUPERS will produce a tape file containing the Active Duty Enlisted/Officer Master Magnetic Tape Record for each service number in the crew data cards. This file will be sent to COMASWFORLANT where a detailed list will be printed and forwarded to the appropriate command.

2.4 Timing. Crew data cards will be sent to BUPERS before the 10th of the month in which they are to be processed as they are included in the normal monthly processing of the Active Duty Enlisted/Officer Master Magnetic Tape Record file. Machine time other than that required at BUPERS is as follows:

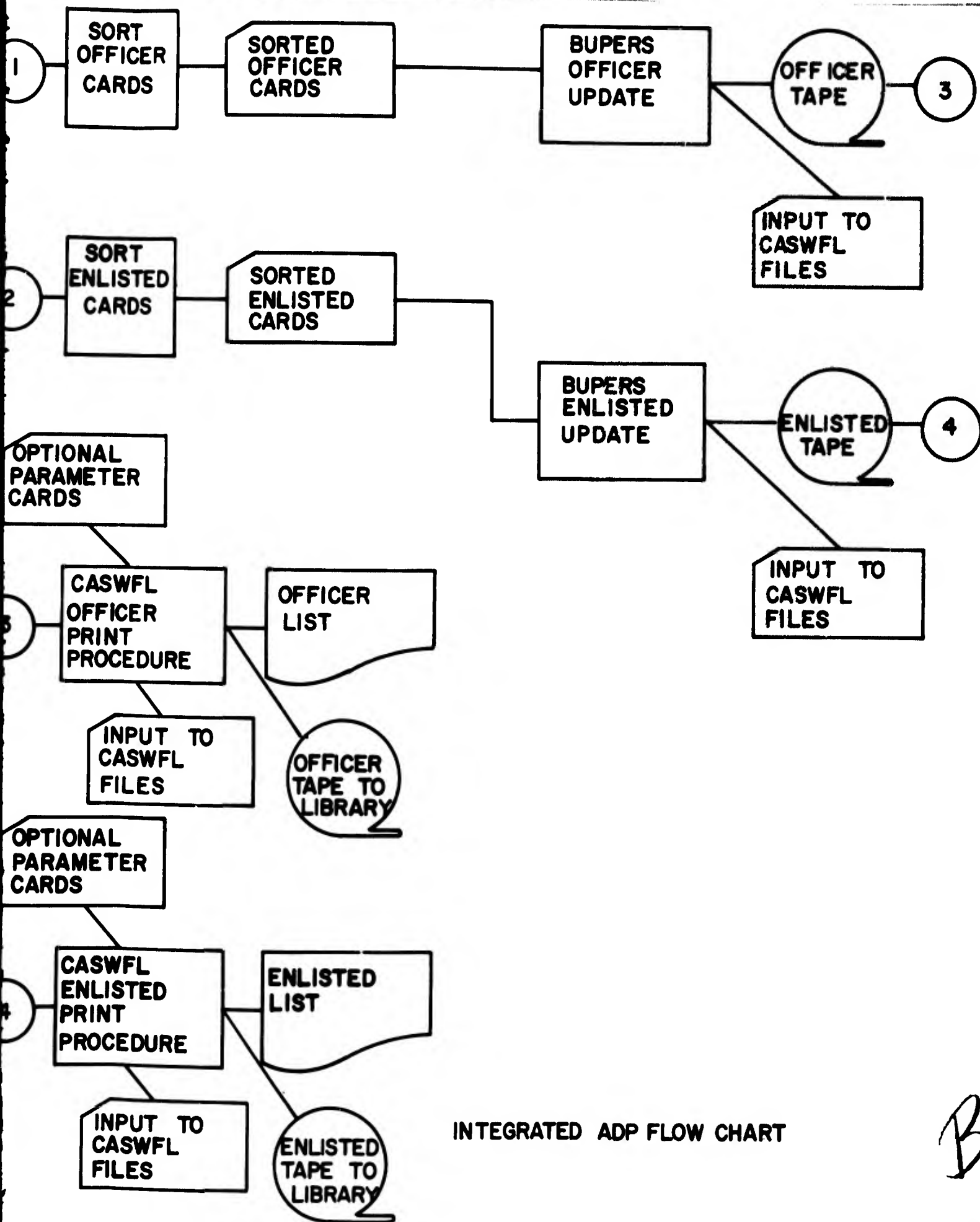
084 sorter	2 hours
1401 computer with one tape drive and printer	17 hours
Keypunch	6 to 12 hours per command
Verifier	Same as keypunch

2.5 Accuracy. Care should be taken by each command to insure that a crew data card has been produced for each enlisted man and officer within their command and that these cards contain valid data. The crew data card to be provided BUPERS with the control information needed to produce the Active Duty Enlisted/Officer Master Magnetic Tape Record file. Invalid data in the crew data cards will produce an invalid tape file.

2.6 Flexibility. This system is designed to produce and print the Active Duty Enlisted/Officer Master Magnetic Tape Record file. Flexibility will be limited to possible changes in the tape records and print formats. Both the old and new officer tapes have print programs. A new enlisted print program will be needed when this tape is revised.



A



INTEGRATED ADP FLOW CHART

B

3. Environment.

3.1 Equipment Environment.

- (a) One central processing unit.
- (b) One tape unit.
- (c) One on line printer.
- (d) One on line card reader.
- (e) One card sorter.
- (f) Each command must have access to at least one keypunch.
- (g) Each command must have access to at least one verifier.

3.2 Software Environment.

IBM autocoder compiler with ZZERRR macro.

3.3 Interfaces. The crew data cards produced by the commands named in paragraph 1.2 are sent to BUPERS for extracting selected data from the Active Duty Enlisted/Officer Master Magnetic Tape Record. A tape is produced containing all Active Duty Enlisted/Officer Master Magnetic Tape Records that match the crew data cards.

3.4 Security. All data in this system is unclassified but should be handled on a "need to know" basis only.

3.5 Controls. Not applicable.

4. Design Data.

4.1 Program Descriptions.

4.1.1 Program Description. The Print Enlisted Tape program, number PD-01, will read the Active Duty Enlisted Master Magnetic Tape Record file and print each record in detail. The printed output will be in the same format as the tape record except that one or more spaces will separate each field and all fields will have identifying headings printed above them. Also

date fields, as well as any other field requiring editing, will have the appropriate editing such as (/), (-), (.), etc., performed. The program will also include routines to perform:

- (a) Printing of only selected records.
- (b) Printing all records.
- (c) Appropriate tape read checks.
- (d) Printing of invalid tape records.
- (e) An interrupt routine.
- (f) A restart routine.
- (g) Check for correct tape header.
- (h) Check for end of reel and end file.
- (i) Print date of tape on list.

Inputs

- (a) Title. Active Duty Enlisted Master Magnetic Tape Record file.
- (b) Format. See APPENDIX A.
 - (1) Header label. 80 characters.
 - (2) File. 500 characters, including a record mark, blocked in groups of 5.
 - (3) Trailer label. 80 characters.
 - (4) Tape marks. One before and after the trailer label.
- (c) Number of Items. Approximately 10,000 records for all commands.
- (d) Means of entry. Input is by one tape unit.

- (e) Frequency. Quarterly.
- (f) Priority. Routine.
- (g) Source. These data are received from BUPERS and retained by COMASWFORLANT.
- (h) Security. Unclassified but handled on a "need to know" basis.
- (i) Parameter Cards. See APPENDIX B.

Outputs

- (a) Title. Enlisted Active Duty Record list.
- (b) Format. See APPENDIX C.
- (c) Number of items. One page per input record.
- (d) Means of display. One on line printer.
- (e) Volume. Approximately 10,000 pages.
- (f) Priority. Routine.
- (g) User Recipients. COMASWFORLANT, COMHUKFORLANT, COMFAIRWINGSLANT and COMOCEANSYSLANT.
- (h) Security. Unclassified but handled on a "need to know" basis.

Data Base

- (a) Title. Active Duty Enlisted Master Magnetic Tape Record file.
- (b) Description. This file contains a history of each enlisted man's schools, duty stations, rates and other such data.
- (c) Number of records. Approximately 10,000.
- (d) Storage. Magnetic tape.
- (e) Classification. Unclassified but handled on a "need to know" basis.
- (f) Data Retention. Minimum of two quarters.

4.1.2 Program Description. The Print Officer Active Duty Tape program, number PD-02, description is the same as that described in paragraph 4.1.1 except that it will use the old Active Duty Officer Master Magnetic Tape Record file on input.

Inputs

- (a) Title. Active Duty Officer Master Magnetic Tape Record.
- (b) Format. See APPENDIX A.
 - (1) Header Label. 80 characters.
 - (2) File. 1,000 characters including record mark.
 - (3) Trailer Label. 80 characters.
 - (4) Tape Marks. One before and one after the trailer label.
- (c) Number of Items. Approximately 2,000 records for all commands.
- (d) Means of entry. One magnetic tape unit.
- (e) Frequency. Quarterly.
- (f) Priority. Routine.
- (g) Source. These data are received from BUPERS and retained by COMASWFORLANT.
- (h) Security. Unclassified but handled on a "need to know" basis.
- (i) Parameter cards. See APPENDIX B.

Outputs

- (a) Officer Active Duty Record list.
- (b) Format. See APPENDIX C.
- (c) Number of items. One page per input record.

- (d) Means of display. One on line printer.
- (e) Volume. Approximately 2,000 pages.
- (f) Priority. Routine.
- (g) User Recipients. COMASWFORLANT, COMHUKFORLANT, COMFAIRWINGSLANT and COMOCEANSYSLANT.
- (h) Security. Unclassified but handled on a "need to know" basis.

Data Base

- (a) Title. Active Duty Officer Master Magnetic Tape Record file.
- (b) Description. This file contains a history of the officer's naval career.
- (c) Number of records. Approximately 2,000.
- (d) Storage. Magnetic tape.
- (e) Classification. Unclassified but handled on a "need to know" basis.
- (f) Retention. Minimum of two quarters.

4.1.3 Program Description. The Print New Officer Tape program, number PD-03, description is the same as that described in paragraph 4.1.1 except that it will use the new Active Duty Officer Master Magnetic Tape Record as an input. (NOTE: Care should be taken when printing fields FAYN1 and FAYN2 as these fields use each bit as an indicator. If a bit is on, print an X under the appropriate heading. If a bit is not on, leave this space on the printout blank.)

Inputs

- (a) Title. Active Duty Officer Master Magnetic Tape Record file.
- (b) Format. See APPENDIX A.
 - (1) Header label. 80 characters.

- (2) File. 1,121 characters.
- (3) Trailer label. 80 characters.
- (4) Tape marks. One before and one after the trailer label.
- (c) Number of items. Approximately 2,000 records for all commands.
- (d) Means of entry. One magnetic tape unit.
- (e) Frequency. Quarterly.
- (f) Priority. Routine.
- (g) Source. These data are received from BUPERS and retained by COMASWFORLANT.
- (h) Security. Unclassified but handled on a "need to know" basis.
- (i) Parameter card - see APPENDIX B.

Outputs

- (a) Officer Active Duty Record list.
- (b) Format. See APPENDIX C.
- (c) Number of Items. One page per input record.
- (d) Means of display. One on line printer.
- (e) Volume. Approximately 2,000 pages.
- (f) Priority. Routine.
- (g) User Recipients. COMASWFORLANT, COMHUKFORLANT, COMFAIRWINGSLANT and COMOCEANSYSLANT.
- (h) Security. Unclassified but handled on a "need to know" basis.

Data Base

- (a) Title. Active Duty Officer Master Magnetic Tape Record file.
- (b) Description. This file contains a history of the officer's naval career.
- (c) Number of records. Approximately 2,000.
- (d) Storage. Magnetic tape.
- (e) Classification. Unclassified but handled on a "need to know" basis.
- (f) Retention. Minimum of two quarters.

4.2 Logical Flow. Crew data cards will be prepared by each of the three commands in paragraph 1.2 and sent to COMASWFORLANT where they will be sorted into service number sequence. The sorted crew data cards will then be sent to BUPERS where a file of the Active Duty Enlisted/Officer Master Magnetic Tape Record file will be sent to COMASWFORLANT where a detailed list will be prepared and distributed to the appropriate command. See macro charts, APPENDIX D, for logical flow of the Active Duty Enlisted/Officer Master Magnetic Tape Record print programs.

APPENDICES:

- A - Data Elements
- B - Required Data Elements
- C - Officer/Enlisted Active Duty Record
- D - Macro Charts

APPENDIX A

Data Elements

The data elements used in this system are described in the Manual of the Active Duty Enlisted Master Magnetic Tape Record, NAVPERS 15, 949A Oct 1962; the Manual of the Active Duty Officer Master Magnetic Tape Record, NAVPERS 15, 921A May 1965 and APPENDIX B.

1 NOV 1964

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APPLICATION APPENDIX A

OLD OFFICER
DATA ELEMENTS TAPE LA

OLD ACTIVE DUTY OFFICER RECORD	SYMBOLIC	FILE #		NAME (LAST FIRST MIDDLE)	
	DATA				
	LOCATION				
	WORD MARK				

100-199	SYMBOLIC	DATE OF BIRTH	DATE OF RANK	DATE OF BIRTH	PAY ENTRY BASE DATE	ACT. DUTY BASE DATE	ACT. COMM. BASE DATE	YR. OF SERVICE	DATE OF RET.	PROFESS. SERVICE
	DATA									
	LOCATION									
	WORD MARK									

200-299	SYMBOLIC	YR. OF SER.	NO. OF SER.	HIGHEST RANK	MARP CODE	SUPER'S ACTIVITY CODE	ACTIVITY TITLE	PLT. CODE	ACCT. CATEGORY
	DATA								
	LOCATION								
	WORD MARK								

300-399	SYMBOLIC	DEP. ON STAT.	PROCESS CONTROL	EST. DATE OF DETACH.	DATE REPORTED CURRENT DUTY STATION	ESTIMATED LOSS DATE AND CODE	MODIFICATION DATE	TOUR DATE
	DATA							
	LOCATION							
	WORD MARK							

400-499	SYMBOLIC	385 ← EDUCATION									
	DATA	UNIV. NAME	NO. OF YR. OF STUDY	LANG. ADD.	PRO. CODE	LANG. ADD.	PRO. CODE				
	LOCATION										
	WORD MARK										

500-599	SYMBOLIC	491 ← QUALIFICATIONS									
	DATA	K. OFFICER BULLETT CLASS.	SHFT. STAT. CODE	NO. OF YR. OF SER.	K. OFFICER BULLETT CLASS.	SHFT. STAT. CODE	NO. OF YR. OF SER.	K. OFFICER BULLETT CLASS.	SHFT. STAT. CODE	NO. OF YR. OF SER.	
	LOCATION										
	WORD MARK										

600-699	SYMBOLIC	TOTAL PC HOURS	TOTAL PC HOURS	IS 3	SPW. 510	MODEL	HOURS	CARR. LAND.	TYPE OFF	YR. LAST RANK	MODEL	HOURS	CARR. LAND.
	DATA												
	LOCATION												
	WORD MARK												

700-799	SYMBOLIC	PAST DUTY									
	DATA	DATE TO	ACTIVITY TITLE	HOME PORT	DEPLOYMENT AREA	NO. OF YR. OF SER.	DATE FROM TO				
	LOCATION										
	WORD MARK										

800-899	SYMBOLIC	PAST DUTY									
	DATA	DATE TO	ACTIVITY TITLE	HOME PORT	DEPLOYMENT AREA	NO. OF YR. OF SER.	DATE FROM TO				
	LOCATION										
	WORD MARK										

A 900-999	SYMBOLIC	PAST DUTY									
	DATA	DATE TO	ACTIVITY TITLE	HOME PORT	DEPLOYMENT AREA	NO. OF YR. OF SER.	DATE FROM TO				
	LOCATION										
	WORD MARK										

DATE _____

DEPLOYMENT AREA	DATE		ACTIVITY TITLE	TYPE OF PORT	HOME PORT	DEPLOYMENT AREA	NO OF MEN	
	FROM	TO						
30	35	40	45 50 55 60	65	70	75	80 85 90 95	B
A-3								

DATE _____

A-4

APPLICATION

APPENDIX A

DATA ELEMENTS TA

1000-1099	SYMBOLIC	FAPDSAC 7	FAPDSHP 7	FAPDSAC 8
	DATA			
	LOCATION	0 5 10 15 20 25 30 35 40		
	WORD MARK			
1100-1121	SYMBOLIC	FABUICA	FABSCA	FABRPTA
	DATA			
	LOCATION	0 5 10 15 20 25 30 35 40		
	WORD MARK			
	SYMBOLIC			
	DATA			
	LOCATION	0 5 10 15 20 25 30 35 40		
	WORD MARK			
	SYMBOLIC			
	DATA			
	LOCATION	0 5 10 15 20 25 30 35 40		
	WORD MARK			
	SYMBOLIC			
	DATA			
	LOCATION	0 5 10 15 20 25 30 35 40		
	WORD MARK			
	SYMBOLIC			
	DATA			
	LOCATION	0 5 10 15 20 25 30 35 40		
	WORD MARK			
	SYMBOLIC			
	DATA			
	LOCATION	0 5 10 15 20 25 30 35 40		
	WORD MARK			
	SYMBOLIC			
	DATA			
	LOCATION	0 5 10 15 20 25 30 35 40		
	WORD MARK			
A	SYMBOLIC			
	DATA			
	LOCATION	0 5 10 15 20 25 30 35 40		
	WORD MARK			

DATA ELEMENTS TAPE LAYOUT

DATE _____

DATE _____													
FAPDSAC 8	FAPDSHP 8	FAPDSAC 8	FAPDSAC 8	FAPDSAC 8	FAPDSAC 8	FAPDSAC 8	FAPDSAC 8	FAPDSAC 8	FAPDSAC 8	FAPDSAC 8	FAPDSAC 8	FAPDSAC 8	FAPDSAC 8
30	35	40	45	50	55	60	65	70	75	80	85	90	95

A-5

1

B

APPENDIX B

Required Data Elements

Data Element Title	Element Name	Tape Position
Active Commission Data Base	FAACBD	180-185
Active Duty Data Base	FAADBD	174-179
Class Year-U. S. Naval Academy	FACLYR	282-283
Constructive Service Indicator	FACNSRVI	452
Constructive Service Year	FACONSRV	453-454
Date of Birth	FADOB	94-99
Date of First Commission	FACOMM	198-201
Date of Gain to Active Duty-Current	FARGAIN	192-197
Date of Gain to Active Duty-Initial	FAIGAIN	186-191
Date of Rank	FADOR	202-207
Decorations Code-Highest	FADECOR	24
Dependency Code-Primary	FADEPPR	144
Dependency Code-Secondary	FADEPSC	145
Designator	FADESIG	83-86
Designator Change History-Date	FADCHDT1	421-424
Designator Change History-Date	FADCHDT2	429-432
Designator Change History-Designator	FADESCH1	425-428
Designator Change History-Designator	FADESCH2	433-436
File Number	FAFILE	26-31
File Number Change Indicator	FAYN2	7 Bit B
Gain/Loss Indicator	FAGLI	25
Permanent Grade	FAPRMGR	68
Present Grade	FAGRADE	63
Spot Promotion Grade	FASPGRD	69
Inactive Precedence Number	FAPRECI	455-462
Loss Code-BUPERS	FALOSS	104-106
Loss Code-DOD	FALOSSD	343-345
Name	FANAME	32-62
Name Change Indicator	FAYN2	7 Bit 2
Over Four Years Active Enlisted Service	FAYN1	5 Bit B
Pay Entry Base Date (PEBD)	FAPEBD	168-173
Precedence Group Code	FAPRECG	71
Precedence Number/Subnumber	FAPRECN	72-79
Promotion Status	FAPROM	64-67
Race	FARACE	93
Reserve Buildup Indicator	FABLDUP	23
Source Code-Original	FAOSC	87-89

Data Element Title	Element Name	Tape Position
Source Code-Current	FACSC	90-92
Previous Military Service	FAPMSBR	361
Previous Military Service-From Date	FAPMSFR	365-366
Previous Military Service-Highest Rate/ Grade	FAPMSHR	369-372
Previous Military Service-Months	FAPMSMO	367-368
Professional Service Date	FAPSD	286-291
Promotional History (Warrant through Flag)	FAPH8	373-378
	FAPH6	379-384
	FAPH5	385-390
	FAPH4	391-396
	FAPH3	397-402
	FAPH2	403-408
	FAPH1	409-414
	FAPH0	415-420
Security Code	FASECBG	146
Security Investigation Date	FASECDT	214-219
Service Data	FASRVDT	284-285
Sex	FAYN1	6 Bit 8
Social Security Number	FASSN	147-155
Spot Promotion Indicator	FASPOTI	70
Spot Promotion Date of Rank	FASPDOR	208-213
Year First Eligible to Retire	FAYFER	220-221
Year Group	FAYRGRP	80-82
Accounting Category Code	FACAT	141-143
Assignment Restriction	FAYN2	7 Bit 8
Billet Sequence Code (Current)	FABSC	324-328
BUPERS Unit Identification Code (BUIC)-Current	FABUIC	114-120
BUPERS Unit Identification Code (BUIC)-Previous	FABUICL	346-352
Collateral Duties	FACOLDU	329-342
Date of Present Billet	FABILDT	306-309
Date Reported/Estimated Date of Arrival	FADTRPT	121-126
Dependents on station overseas- Date Arrived	FADOSDT	293-296
Detail Cognizance Code	I ACOG	136-137
Detailers Remarks	FADTRMK	258-261
Duties in Training for-by Billet Sequence Code	FADUTR	297-301
Duties in Training for-Date Qualified	FADUTRQ	302-305
Estimated Loss Code (ELC)	FAELC	107

Data Element Title	Element Name	Tape Position
Estimated Loss Date (ELD)	FAELD	108-113
Functional Area Code	FAFAC	135
Master PAMI	FAPAMI	9
Number of Dependents on Station Overseas	FADOS	292
Occupying Public Quarters	FAYN1	5 Bit 8
Order Status Code	FAORDST	138
Phased Activity Code	FAACTVY	353-360
Primary Duties	FAPRIDU	310-323
Process Control Number	FAPCN	222-227
Projected Rotation Date	FAPRD	127-130
Rotation Projection	FARP	139-140
Tour Date	FATOUR	131-134
Aircraft Flown in Combat	FACOMAC	265
Carrier Landings Total	FACLTOT	561-563
Combat Tour	FACOMBTR	245
Currently Serving on Combat Duty	FAYN1	5 Bit 4
Date Last Serving on Combat Duty	FACOMBAT	262-264
Flight Student Indicator	FAYN1	5 Bit 2
Flying Status Code	FAFSC	103
Heavier than Air Pilot, Designation Date	FAHTA	266-269
Instrument Rating	FAINST	567
Lighter than Air Pilot, Designator Date	FALTA	270-273
Model Aircraft-Aircraft Commander/ NFO Designator	FAACPCI	581-583
	FAACPC2	597-599
	FAACPC3	613-615
	FAACPC4	629-631
	FAACPC5	645-647
Model Aircraft-Carrier Landings	FAACCVL1	578-580
	FAACCVL2	594-596
	FAACCVL3	610-612
	FAACCVL4	626-628
Model Aircraft Flown	FAACCVL5	642-644
	FAACMOD1	570-573
	FAACMOD2	586-589
	FAACMOD3	602-605
	FAACMOD4	618-621
Model Aircraft-Hours Flown	FAACMOD5	634-637
	FAACHRS1	574-577
	FAACHRS2	590-593
	FAACHRS3	606-609
	FAACHRS4	622-625
	FAACHRS5	638-641

Data Element Title	Element Name	Tape Position
Model Aircraft-Year Last Flown	FAACYR1	584-585
	FAACYR2	600-601
	FAACYR3	616-617
	FAACYR4	632-633
	FAACYR5	648-649
Naval Flight Officer, Designation Date	FANFODT	274-277
OPNAV 3760 Date	FA3760D	535-538
OPNAV 3760 Type	FA3760T	539
Pilot Category	FAPCAT	100
Primary Aeronautical Designation	FAPAD	102
Service Group Code	FASGC	101
Pilot/Naval Flight Officer Hours-Last 5 Years	FAP15YR	545-548
Total Jet Hours	FAJTHRS	549-552
Total Months on Combat Duty	FACOMMOS	21-22
Total Plane Commander Hours	FAPCTOT	557-560
Total Pilot/Naval Flight Officer Hours	FAPLTHR	540-544
VH Hours	FAVHRS	553-556
DOD Junior Officer Aptitude Test Score-M	FADOREM	437-439
DOD Junior Officer Aptitude Test Score-T	FADORET	443
DOD Junior Officer Aptitude Test Score-V	FADOREV	440-442
Language	FALANG1	503-506
	FALANG2	514-517
Language Exception Indicator	FAYN1	5 Bit 1
Language Proficiency Date	FALNGDT1	512-513
	FALNGDT2	523-524
Language Proficiency-Defense Language Institute Test	FALNGPR1	508
	FALNGPR2	519
Language Proficiency-Self Evaluated/ Test Conversion	FALNGP1	507
	FALNGP2	518
Naval Officer Classification	FAQL1	722-725
	FAQL2	732-735
	FAQL3	742-745
	FAQL4	752-755
	FAQL5	762-765
	FAQL6	772-775
	FAQL7	782-785
Naval Officer Classification Key Code	FAQLKEY1	731
	FAQLKEY2	741
	FAQLKEY3	751
	FAQLKEY4	761
	FAQLKEY5	771
	FAQLKEY6	781
	FAQLKEY7	791

Data Element Title	Element Name	Tape Position
Naval Officer Classification-Months	FAQLMOS1	729-730
	FAQLMOS2	739-740
	FAQLMOS3	749-750
	FAQLMOS4	759-760
	FAQLMOS5	769-770
	FAQLMOS6	779-780
	FAQLMOS7	789-790
Naval Officer Classification-Station Code	FAQLSTA1	726-728
	FAQLSTA2	736-738
	FAQLSTA3	746-748
	FAQLSTA4	756-758
	FAQLSTA5	766-768
	FAQLSTA6	776-778
	FAQLSTA7	786-788
Past Duty Station-Activity Title	FAPDSAC1	800-815
	FAPDSAC2	833-848
	FAPDSAC3	866-881
	FAPDSAC4	899-914
	FAPDSAC5	932-947
	FAPDSAC6	965-980
	FAPDSAC7	998-1013
	FAPDSAC8	1031-1046
Past Duty Station-Deployment Duration	FAPDSMO1	823-824
	FAPDSMO2	856-857
	FAPDSMO3	889-890
	FAPDSMO4	922-923
	FAPDSMO5	955-956
	FAPDSMO6	988-989
	FAPDSMO7	1021-1022
	FAPDSMO8	1054-1055
Past Duty Station-From Date	FAPDSFR1	792-795
	FAPDSFR2	825-828
	FAPDSFR3	858-861
	FAPDSFR4	891-894
	FAPDSFR5	924-927
	FAPDSFR6	957-960
	FAPDSFR7	990-993
	FAPDSFR8	1023-1026
Past Duty Station-Home Port	FAPDSHP1	817-822
	FAPDSHP2	850-855
	FAPDSHP3	883-888

Data Element Title	Element Name	Tape Position
	FAPDSHP4	916-921
	FAPDSHP5	949-954
	FAPDSHP6	982-987
	FAPDSHP7	1015-1020
	FAPDSHP8	1048-1053
Past Duty Station-To Date	FAPDSTO1	796-799
	FAPDSTO2	829-832
	FAPDSTO3	862-865
	FAPDSTO4	895-898
	FAPDSTO5	928-931
	FAPDSTO6	961-964
	FAPDSTO7	994-997
	FAPDSTO8	1027-1030
Past Duty Station-Type Assignment	FAPDSTA1	816
	FAPDSTA2	849
	FAPDSTA3	882
	FAPDSTA4	915
	FAPDSTA5	948
	FAPDSTA6	981
	FAPDSTA7	1014
	FAPDSTA8	1047
Qualified in or for Command of Submarines	FAYN1	6 Bit B
Special Designations	FASPDES1	650-652
	FASPDES2	653-655
	FASPDES3	656-658
	FASPDES4	659-661
	FASPDES5	662-664
	FASPDES6	665-667
	FASPDES7	668-670
	FASPDES8	671-673
	FASPDES9	674-676
Submarine Qualification Date	FASUBDT	278-281
Subspecialty	FASUBSP1	525-529
	FASUBSP2	530-534
Education-College Name	FAEDCOL1	463-472
	FAEDCOL2	483-492
Education Duration	FAEDDUR1	473-474
	FAEDDUR2	493-494
Education Exception Indicator	FAYN1	6 Bit 4

Data Element Title	Element Name	Tape Position
Education Level	FAEDLEV1	478
	FAEDLEV2	498
Education Major	FAEMAJ1	479-480
	FAEDMAJ2	499-500
Education Specialty	FAEDSPC1	481-482
	FAEDSPC2	501-502
Education Sponsor	FAEDSPN1	477
	FAEDSPN2	497
Education-Year Completed	FAEDYRC1	475-476
	FAEDYRC2	495-496
Service School Code	FASCH1	677-679
	FASCH2	686-688
	FASCH3	695-697
	FASCH4	704-706
	FASCH5	713-715
Service School Completion Date	FASCHDT1	680-683
	FASCHDT2	689-692
	FASCHDT3	698-701
	FASCHDT4	707-710
	FASCHDT5	716-719
Service School Length/Duration	FASCHDU1	684-685
	FASCHDU2	693-694
	FASCHDU3	702-703
	FASCHDU4	711-712
	FASCHDU5	720-721
Accounting Category Code-Pending	FACATP	1056
Assignment Restriction-Pending	FAYN2	7 Bit 1
Billet Sequence Code-Pending	FABSCP	1093-1097
BUPERS Unit Identification Code (BUIC)- Pending	FABUICP	1086-1092
Designator-Pending	FADESIGP	1099-1101
Detail Cognizance Code-Pending	FACOGP	1057-1058
Estimated Date of Arrival-Pending	FAEDAP	1078-1081
Estimated Date of Detachment	FAEDD	1082-1085
Estimated Loss Code-Pending	FAELCP	1064
Estimated Loss Date-Pending	FAELDP	1065-1068
Flying Status Code-Pending	FAFSCP	1060
Functional Area Code-Pending	FAFACP	1061
PAMI-Pending	FAPAMIP	1069
Primary Aeronautical Designation-Pending	FAPADP	1059

<u>Data Element Title</u>	<u>Element Name</u>	<u>Tape Position</u>
Projected Rotation Date-Pending	FAPRDP	1070-1073
Rotation Projection-Pending	FARPP	1082-1083
Tour Date-Pending	FATOURP	1074-1077
Type Assignment "A"-Pending	FATYPEAP	1098
ADDU Overflow Indicator	FAYN2	7 Bit 4
Billet Sequence Code-Additional Duty	FABSCA	1110-1114
BUPERS Unit Identification Code (BUIC)- ADDU	FABUICA	1103-1109
Date Reported-Additional Duty	FADRPTA	1115-1120
Order Status-Additional Duty	FAORSTA	1102
Record Mark (✓)		1121

APPENDIX B

ENLISTED SERVICE NUMBER COL. 1-7	OFFICER FILE NUMBER COL. 1-6
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PARAMETER CARD LAYOUT

The following is a list of the headings used in the Enlisted/Officer Active Duty Record list and the page numbers within the Manual of the Active Duty Officer Master Magnetic Tape Record, NAVPERS 15,921A, May 1965 and Manual of the Active Duty Enlisted Master Magnetic Tape Record, NAVPERS 15,949A, October 1962 in which a definition of the data described by these headings may be found.

Officer Active Duty Record

Heading	Page No.	Heading	Page No.
File No.	7	LCDR	46
Name	8	Commander	46
Pres Grade	9	Captain	46
Pro Stat	11	Flag	46
Cat Desg	12	Pre Mil Service-Bran	48
Staff Code	16	Pre Mil Service-Year	48
Sex	17	Pre Mil Service-Mo	48
Per Grade	18	Pre Mil Service-Rank	48
Grade Pres	19	MARP Code	50
Grade Per	20	BUPERS Act	51
Pres Abbr	21	Activity Title	52
Per Abbr	22	Plc Code	53
Source Orig	23	Assign Code	54
Source Code-Cur	23	Acct Code	55
Loss Code-BUPERS	27	Ord Stat	56
Loss Code-DOD	29	Present Billet	57
Yr Gr	30	Primary Duties	58
Precedence Number	31/32	Collateral Duties	59
Over Four	33	Fun Area	60
Cit	34	Billet Code	61
Race	35	Train Duties	62
Date Gain	36	Qual Date	63
Date Rank	37	Conus Departure	64
Date Birth	38	Dependents-Pri	65
Pay Entry Base Date	39	Dependents-Sec	66
Active Base Date	40	Dependents-O/S	67
Comm Base Date	41	O/S Dep Date ar	68
Class Year	42	Public Qutr	69
Ser Date	43	Order Number	70
Retire Year	44	Fac Code	71
Prof Service	45	Detach Date	72
Warrant	46	Assign Code	73
Ensign	46	Detail Code	74
LTJG	46	Current Duty	77
Lieutenant	46	Loss Code	78

Heading	Page No.	Heading	Page No.
Loss Date	78	Service School-Wks	94
Rota Date	81	Service School-Sch	94
Rota Pro	82	Service School-Comp	94
Tour Date	83	Service School-Wks	94
Security Inv	84	Service School-School	94
Security Agency	84	Service School-Comp	94
Security Date	84	Service School-Wks	94
Assign Restr	85	Dec Code	98
Res Ext	86	Aero Code	99
Detailers Remarks	87	Flg Stat	100
Special Designation Code	88	Flight-Train	101
Spec Desig Sub Qual	88	Flight-Exp	102
Special Desig Code	88	Heavier Air	103
Subspecialty	89	Flight Qual	104
Education-School	90	Light Air	106
Education-Mo	90	Total Hours	107
Education-Yr	90	5 Yr Hour	108
Education-Spon	90	Jet Hour	109
Education-Level	90	VH Hour	110
Education-Maj	90	PC Hour	111
Education-Spec	90	Carr Land	112
Education-School	90	IOMT	113
Education-Mo	90	Ser Gr	114
Education-Yr	90	Inst Rate	116
Education-Spon	90	OPNAV 3760-Type	117
Education-Level	90	OPNAV 3760-Date	117
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OFFICER ACTIVE DU

FILE NAME

PRES. PRO CAT STAFF PER G
GRADE STAT DESG CODE SEX GRADE PRE

XXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXX XXXX XXXX X X XXX X

CIT RACE DATE DATE DATE PAY ENTRY ACTIVE COMM CLASS SE
GAIN RANK BIRTH BASE DATE BASE DATE BASE DATE YEAR DA

X X XX/XX/XX XX/XX/XX XX/XX/XX XX/XX/XX XX/XX/XX XX/XX/XX XX X

LCDR COMMANDER CAPTAIN FLAG PRE MIL SERVICE MARP
BRAN YR MO RANK CODE BUPERS ACT ACTI

XX/XX/XX XX/XX/XX XX/XX/XX XX/XX/X7 XXXX XX XX XXXX XXXX XXXXXXXXXXXX XXXXX

COLLATERAL FUN BILLET TRAIN QUAL CONUS DEPENDENTS O/S DEP PUB
DUTIES AREA CODE DUTIES DATE DEPARTURE PRI SEC O/S DATE AR QU

XXXXXXXXXXXXXXXXX X XXXXX XXXXX XX/XX XX/XX/XX X X X XX/XX X

ROTA ROTA TOUR SECURITY ASSIG RES DETAILERS SPECIAL DESIGNATION
DATE PRO DATE INV AGY DATE RESTR EXT REMARKS CODE SUB QUAL CODE

XX/XX XX XX/XX X X XX/XX/XX X XXX XXXXXXXXXXXX XXX XX/XX X

-----EDUCATION----- *-----LANGUAGES-----* *-----

MO YR SPON LEVEL MAJ SPEC LANG CODE TEST LANG CODE TEST MORE SCH COMP WKS

XX XX X X XX XX XXXXX X XXXX XXXX X XXXX X XXX XX/XX XX

DEC AERO FLY FLIGHT HEAVIER FLIGHT LIGHT TOTAL 5 YR JET VH PH CA
CODE CODE STAT TRAIN EXP AIR QUAL AIR HOURS HOUR HOUR HOUR LA

X X X XX XX XX/XX XX/X7 XX/XX XXXXX XXXX XXXX XXXX XXXX XX

QUALIFICATIONS AIRCRAFT MODEL EXPERIENCE *-----P A S T D U T
NOBC STATION MOS KEY CRAFT HOURS CARR IND YR REPORT DETACH ACTIVITY

XXXX XXX XX X XXXX XXXX XXX XXX XX XX/XX XX/XX XXXXXXXXXXXXXXXX
XXXX XXX XX X XXXX XXXX XXX XXX XX XX/XX XX/XX XXXXXXXXXXXXXXXX
XXXX XXX XX X XXXX XXXX XXX XXX XX XX/XX XX/XX XXXXXXXXXXXXXXXX
XXXX XXX XX X XXXX XXXX XXX XXX XX XX/XX XX/XX XXXXXXXXXXXXXXXX
XXXX XXX XX X XXXX XXXX XXX XXX XX XX/XX XX/XX XXXXXXXXXXXXXXXX
XXXX XXX XX X XXXX XXXX XXX XXX XX XX/XX XX/XX XXXXXXXXXXXXXXXX
XXXX XXX XX X XXXX XXXX XXX XXX XX XX/XX XX/XX XXXXXXXXXXXXXXXX

C E R A C T I V E D U T Y R E C O R D

D A T E

CAT	STAFF	PER	GRADE	PRES	PER	SOURCE	CODE	LOSS	CODE	YR	PRECEDENCE	OVER	
DESG	CODE	SEX	GRADE	PRES	PER	ABBR	ABBR	ORG	CUR	BUPERS	DOD	GR	
											NUMBER	FOUR	
XXXX	X	X	XXX	X	X	XXXX	XXXX	XXX	XXX	XXX	XXX	XXXXXXX	X

IVE	COMM	CLASS	SER	RETIR	PROF							
DATE	BASE	DATE	YEAR	DATE	YEAR	SERVICE	WARRANT	ENSIGN	LTJG	LIEUTENANT		
X/XX	XX/XX/XX	XX	XX	XX	XX/XX/XX	XX/XX/XX	XX/XX/XX	XX/XX/XX	XX/XX/XX	XX/XX/XX		

CE	MARP											
PLC	ASSIGN	ACCT	ORD	PRESENT								
CODE	CODE	CODE	STAT	BILLET	PRIMARY	DUTIES						
XX	XXXX	XXXXXXXXXX	XXXXXXXXXXXXXXXXXX	X	X	XXXX	X	XX/XX	XXXXXXXXXXXXXXXXXX			

DEPENDENTS	O/S	DEP	PUBLIC	ORDER	FAC	DETACH	ASSIG	DETAIL	CURRENT	LOSS		
PRI	SEC	O/S	DATE	AR	QUTR	NUMBER	CODE	DATE	CODE	CODE		
X	X	X	XX/XX	X	XXXXXX	X	XX/XX	X	XX	XX/XX/XX	X	XX/XX/XX

SPECIAL DESIGNATION	*-----E D U C A T I O N-----*											
CODE	SUB	QUAL	CODE	SUBSPECIALTY	SCHOOL	MO	YR	SPON	LEVEL	MAJ	SPEC	SCHOOL
XXXX	XXX	XX/XX	X	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XX	XX	X	X	XX	XX	XXXXXXXXXXXX

-----S E R V I C E S C H O O L S-----												
TEST	MORE	SCH	COMP	WKS	SCH	COMP	WKS	SCH	COMP	WKS	SCH	COMP
XXXX	X	XXX	XX/XX	XX	XXX	XX/XX	XX	XXX	XX/XX	XX	XXX	XX/XX

AL	5	YR	JET	VH	PH	CARR	SER	INST	OPNAV	3760
RS	HOUR	HOUR	HOUR	HOUR	LAND	IOMT	GR	RATE	TYPE	DATE
X	XXXX	XXXX	XXXX	XXXX	XXX	X	X	X	XX/XX	

-----P A S T D U T Y S T A T I O N S-----						
REPORT	DETACH	ACTIVITY	ROTA	PORT	AREA	MOS
XX/XX	XX/XX	XXXXXXXXXXXXXXXXXX	X	XXXXXX	XXXXXX	XX
XX/XX	XX/XX	XXXXXXXXXXXXXXXXXX	X	XXXXXX	XXXXXX	XX
XX/XX	XX/XX	XXXXXXXXXXXXXXXXXX	X	XXXXXX	XXXXXX	XX
XX/XX	XX/XX	XXXXXXXXXXXXXXXXXX	X	XXXXXX	XXXXXX	XX
XX/XX	XX/XX	XXXXXXXXXXXXXXXXXX	X	XXXXXX	XXXXXX	XX
XX/XX	XX/XX	XXXXXXXXXXXXXXXXXX	X	XXXXXX	XXXXXX	XX
XX/XX	XX/XX	XXXXXXXXXXXXXXXXXX	X	XXXXXX	XXXXXX	XX

B

ENLISTED ACTIVE DUTY

-----PRESENT RATE-----

SER SEX NAME

AUTH DATE OF
ABBR CODE KEY CODE IND PAY GRAD

XXXXXXXX X XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXX XXXXX XX X X XX/XX/XX

-----PROFICIENCY PAY----- *-----E D U C A T I O N A P T I

RET RET RET AWARD TEST *-----TECH TEST-----* BASIC BATT
CODE CODE DATE ERR IND IND YRS USAFI IND READ MATH PHYS ELEC GCT ARI MECH

X X XX XX XX X X XXX X XX XX XX XXXXXXXX XX XX

ANG DOD *-----S

QUAL *-----SECURITY-----* LANG BRANCH TSS CURRENT ACTIVE PAY ENTRY ACTIVE
DATE CID DATE CODE SOURCE ABIL CLASS IND ENLIST DUTY BASE DATE BASE

X/XX XX/XX/XX X X XX XX XXXXX/XX/XX XX/XX/XX XX/XX/XX XX/XX

-----SERVICE DATA-----

NO EXP RECALL INVOL INVOL PRIOR BIRTH CIT STAT BIRTH DEPENDENT ROTA S
ENL IND IND IND MOS OFF DATE A23 REL RES PLACE P S DATE

X X X X XX X XX/XX/XX X X X XX XXX X X XX/XX X

-----P R E S E N T A C T I V I T Y-----

S/S HOME ACT ACCT DATE DATE SPEC PAM
CODE PORT ACTIVITY TYPE CODE DOS TRANS RECEIVED TRANS CAT PAMI COD

X X XXXXXXXXXXXXXXXX XXX XXX X XX XX/XX/XX XX/XX/XX X X XXX

1ST PAST ACTIVITY *-----2ND PAST ACTIVITY-----*

DATE DATE PAMI BUPERS ACCT S/S DATE MOS HOME ACT
TRANS RECEIVED TRANS PAMI CODE ACTIVITY CAT CODE RECEIVED OB PORT TYPE

XX XX/XX/XX XX/XX/XX X XXXX XXXXXXXXXXXX X X XX/XX/XX XXX X XXX

-----S C H O O L H I S T O R Y-----

DATE DATE DATE DATE DATE S/S DMT HIST SPEC CHG
SCH COMP SCH COMP SCH COMP SCH COMP SCH COMP IND IND IND CAT IND

XXXX XX/XX XXXX XX/XX XXXX XX/XX XXXX XX/XX XXXX XX/XXXXX X X X X

STED ACTIVE DUTY RECORD

DATE

-----PRESENT RATE-----* PROSPECTIVE RATE NAVY CLASSIFICATION
 AUTH DATE OF TERMINAL PNEC SNEC KEY RATE RATE CODE
 CODE KEY CODE IND PAY GRADE ABBR CODE DATE PNEC SNEC KEY RATE RATE CODE
 X XXXXX XX X X XX/XX/XX XXXXX XXXXX XX/XX/XXXXXXXX XXXX XX XX XX XXX

EDUCATION APTITUDE-----*
 TECH TEST-----* BASIC BATTERY *-----SPECIAL-----* ENL LIM ORGIN LANG LANG
 MATH PHYS ELEC GCT ARI MECH CLER SONAR RADIO ETST SHOP DISG DUTY KEY CODE PROF
 XX XX XXXXXXXX XX XX XX XX XX XX XX XX X X XXX X

-----SERVICE DATA-----*
 ACTIVE PAY ENTRY ACTIVE DUTY EXT RES DATE ACT DUTY EXT EXT OTH TYPE TERM MIL
 DUTY BASE DATE BASE DATE MOS MOS LOSS EXPIRATION VEY OTH SER ENL IND OBL
 XX XX/XX/XX XX/XX/XX XX/XX/XX XX XX XX/XX XX/XX/XX XX XX XXX XX X X

STAT BIRTH DEPENDENT COMM NAVY TOUR *-----PRESENT ACTIVITY-----*
 RES PLACE P S DATE DUTY FROM DIST DATE SEA SPEC PAMI BUPERS DIST
 XX XXX X X XX/XX XX/XX XX X XX/XX XX/XX X X XXX XXXXXXXXXXXX XXX

-----1ST PAST ACTIVITY-----
 DATE DATE SPEC PAMI BUPERS DIST S/S HOME ACT ACCT
 RECEIVED TRANS CAT PAMI CODE ACTIVITY COMD CODE PORT ACTIVITY TYPE CODE DOS
 XX/XX XX/XX/XX X X XXXX XXXXXXXXXXXX XXX X X XXXXXXXXXXXXXXXXXXXX XXX XXX X

-----CAREER HISTORY-----
 S/S DATE MOS HOME ACT MOS HOME ACT MOS HOME ACT MOS HOME ACT
 CODE RECEIVED OB PORT TYPE OB PORT TYPE OB PORT TYPE OB PORT TYPE
 X XX/XX/XX XXX X XXX XX X XXX XX X XXX XX X XXX XX X XXX

-----PRO ASSIGN-----
 DATE S/S DMT HIST SPEC CHG FIN SP LOSS PAC DIST SPEC EST
 COMP IND IND IND CAT IND IND PRO IND IND PAMI COMD CAT ARR
 XX/XXXXX X X X X X X XXX X X XXX X XX/XX

B

OFFICER ACTIVE DUTY

[illegible]

ER ACTIVE DUTY RECORD

DATE

SEX	RACE	DATE OF BIRTH	NAME CHG	FILE CHG	DEPENDENTS PRI	SEC O/S	O/S DEP DATE	AR	PUBLIC QTRS	*SECURITY* T INV	DECO DATE	ORDER CODE	SER NUMBER	GRP
X		XX/XX/XX	X		X	X	X	XX/XX		X	XX/XX/XX	X	XXXXXX	X

LOSS CODE	YR	SERV DOD	*PRECEDENCE	NUMBER	OVER	*DATE OF GAIN--*	*DATE OF RANK--*
BUPERS	DOD	GRP	DATE	ACTIVE	INACTIVE	FOUR CURRENT	INITIAL PRESENT
XXX	XXX	XXX	XX	XXXXXXXXXX	XXXXXXXXXX	XX/XX/X7	XX/XX/X7

-----P R O M O T I O N A L H I S T O R Y-----

ENS	LTJG	LT	LCDR	CDR	CAPT	FLAG	*PREV MIL SERV* CL	RET
							BRAN YR	MO RANK YR
XX/XX	XX/XX/XX	XX/XX/XX	XX/XX/XX	XX/XX/XX	XX/XX/XX	XX/XX/XX	X	XX XX XXXX XX XX

AIL	ACCTG	GAIN	ORDER	PHASED	PRESENT	*---PRIMARY---	*-COLLATERAL--*	TRAIN	QUAL
P	C	P	LOSS	C A	ACTIVITY	BILLET	DUTIES	DUTIES	DATE
XX	XXX	X	X	X	XXXXXXXXXX	XX/XX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXX XX/XX

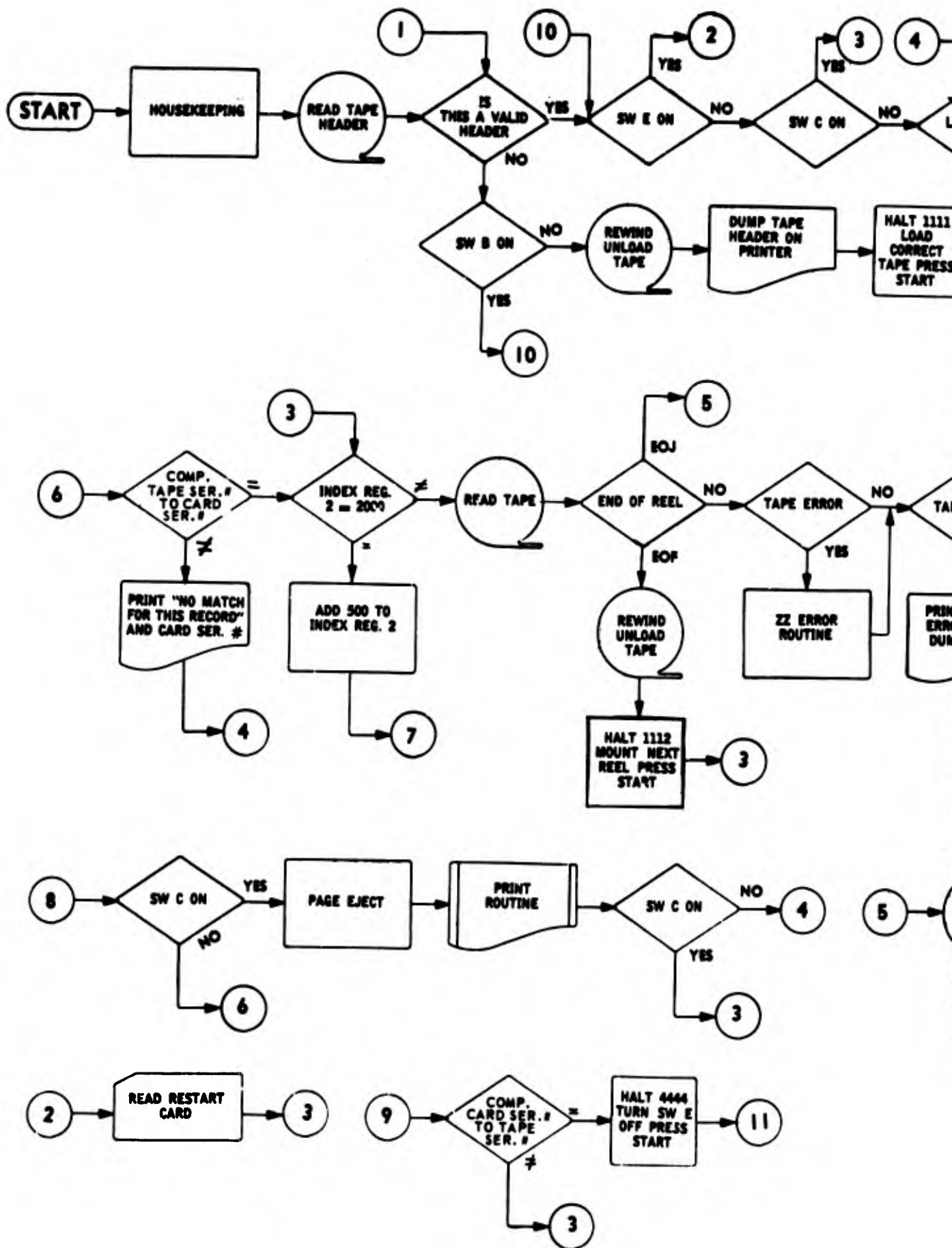
ESTIMATED	LOSS CODE--*	*ROTA DATE*	*ROTA PROJ*	*TOUR DATE*	RESTR	DETAILER	ASSIG	MORE
DATE	PEND	DATE	CUR	PEND	CUR	PEND	C P	REMARKS
XX/XX/XX	X	XX/XX	XX/XX	XX/XX	XX	XX	XX/XX	XX/XX

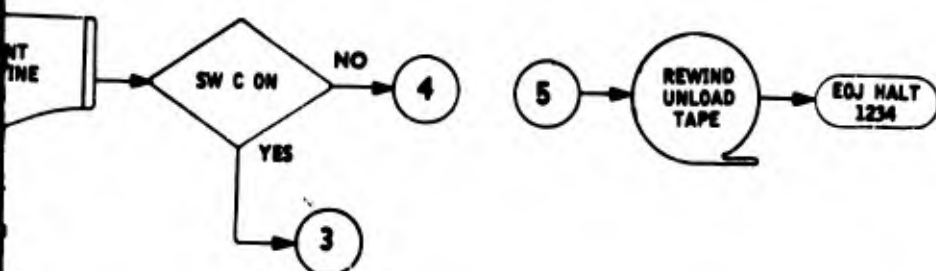
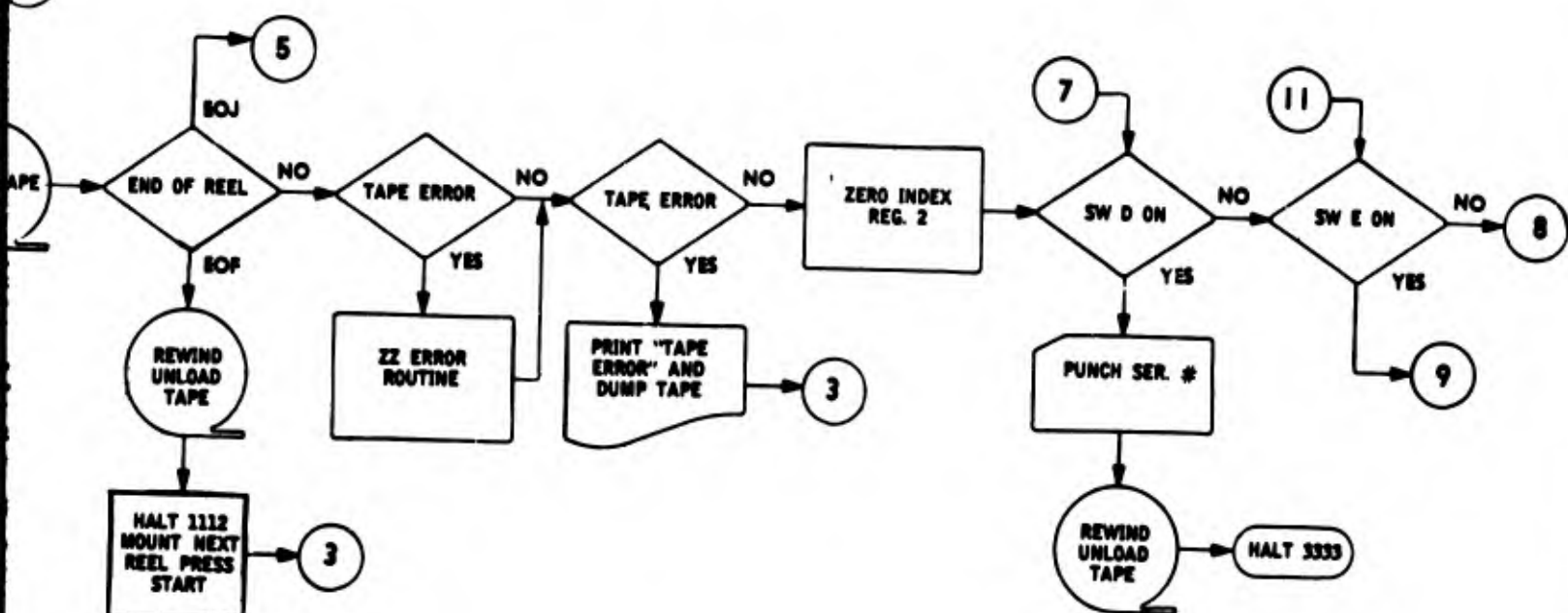
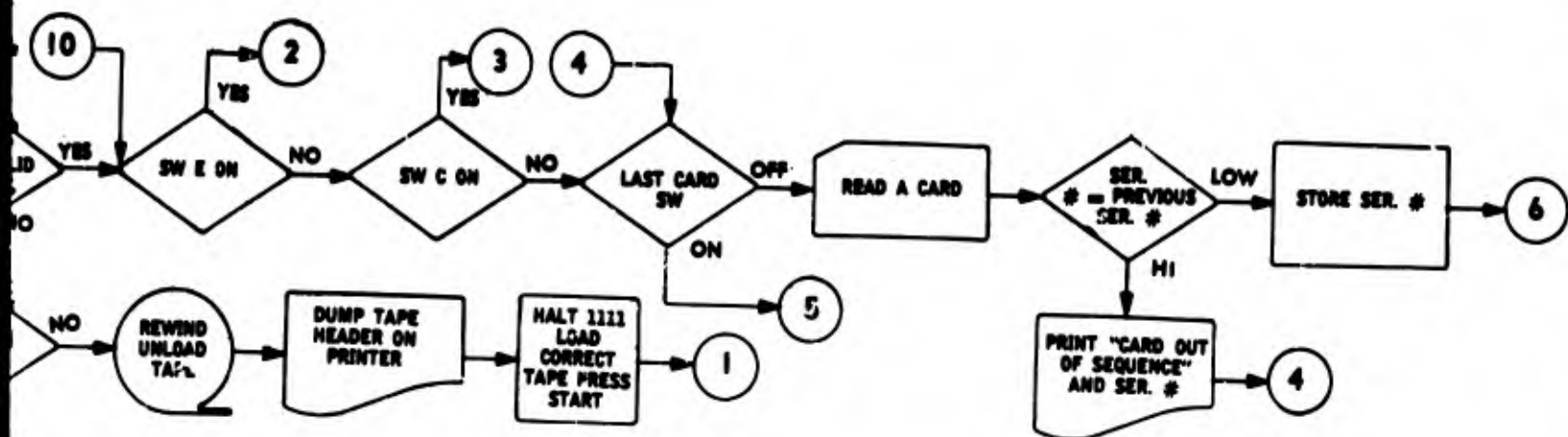
SUBMARINE	*CONST	SERV*	*PILOT/NFO	TOT	FLIGHT	HR*	CARR	INSTRUMENT	*--OPNAV 3760--*
UAL	DATE	IND	YR	TOTAL	5-YR	JET	VH	PC	LAND
XX/XX	X	XX	XXXXX	XXXX	XXXX	XXXX	XXXX	XXX	X

-L A N G U A G E S--	DESIG	CHANGE	PILOT	DESIG	NFO	PILOT	FLYING	STATUS
RE	LANG	CODE	TEST	YR	MORE	DATE	DESIG	HTA
XXXX	X	X	XX	X	XX/XX	XXXX	XX/XX	XX/XX

AIRCRAFT	MODEL	EXPERIENCE	*-----P A S T	D U T Y	S T A T I O N S-----*	SPECIAL						
MODEL	HRS	CARR	DESIG	YR	REPORT	DETACH	ACTIVITY	TYPE	HOME	PT	MOS	DESIG
XXXX	XXXX	XXX	XXX	XX	XX/XX	XX/XX	XXXXXXXXXXXXXXXXXX	X	XXXXXX	XX	XXX	XXX
XXXX	XXXX	XXX	XXX	XX	XX/XX	XX/XX	XXXXXXXXXXXXXXXXXX	X	XXXXXX	XX	XXX	XXX
XXXX	XXXX	XXX	XXX	XX	XX/XX	XX/XX	XXXXXXXXXXXXXXXXXX	X	XXXXXX	XX	XXX	XXX
XXXX	XXXX	XXX	XXX	XX	XX/XX	XX/XX	XXXXXXXXXXXXXXXXXX	X	XXXXXX	XX	XXX	XXX
XXXX	XXXX	XXX	XXX	XX	XX/XX	XX/XX	XXXXXXXXXXXXXXXXXX	X	XXXXXX	XX	XXX	XXX
					XX/XX	XX/XX	XXXXXXXXXXXXXXXXXX	X	XXXXXX	XX	XXX	XXX
					XX/XX	XX/XX	XXXXXXXXXXXXXXXXXX	X	XXXXXX	XX	XXX	XXX
					XX/XX	XX/XX	XXXXXXXXXXXXXXXXXX	X	XXXXXX	XX	XXX	XXX
					XX/XX	XX/XX	XXXXXXXXXXXXXXXXXX	X	XXXXXX	XX	XXX	XXX

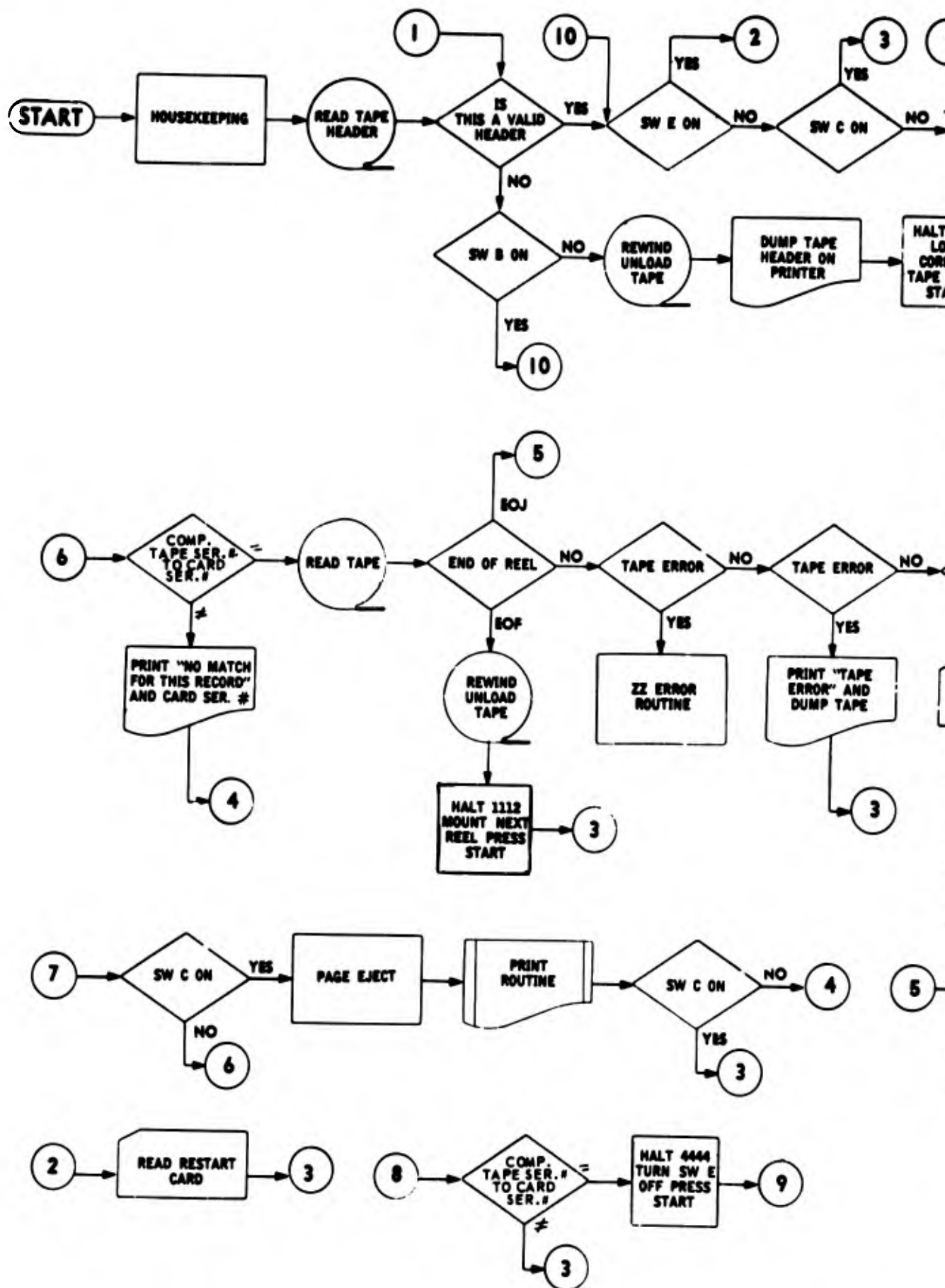
B

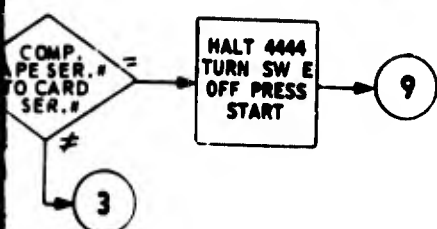
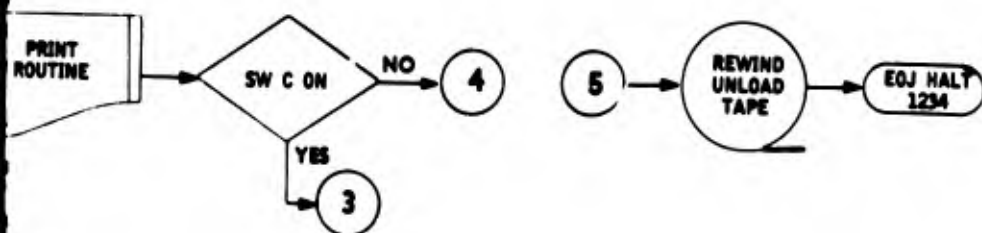
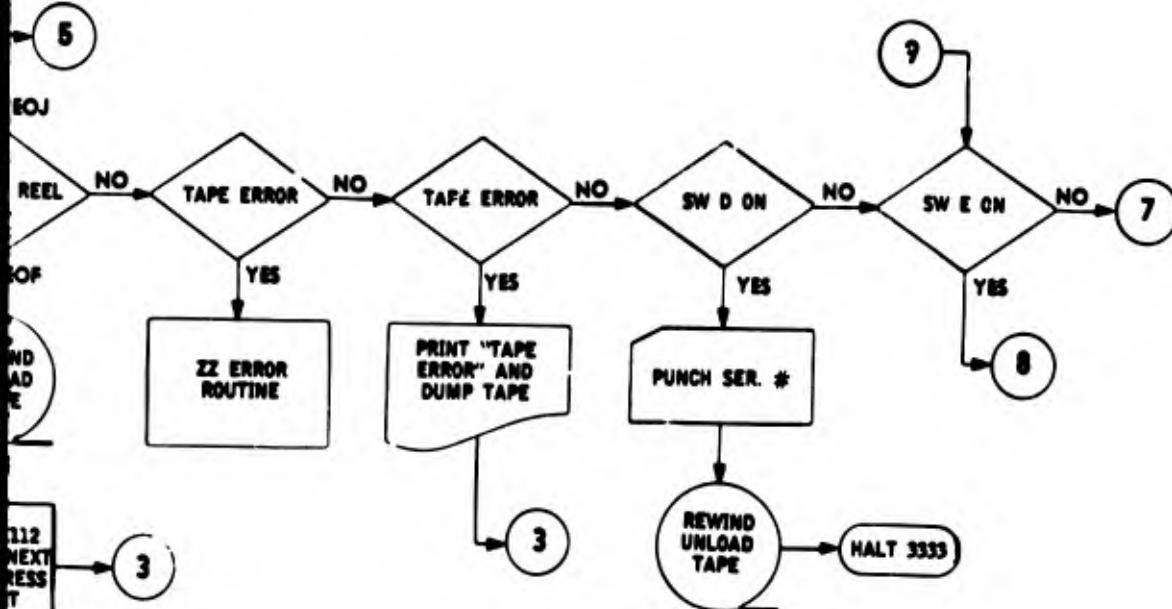
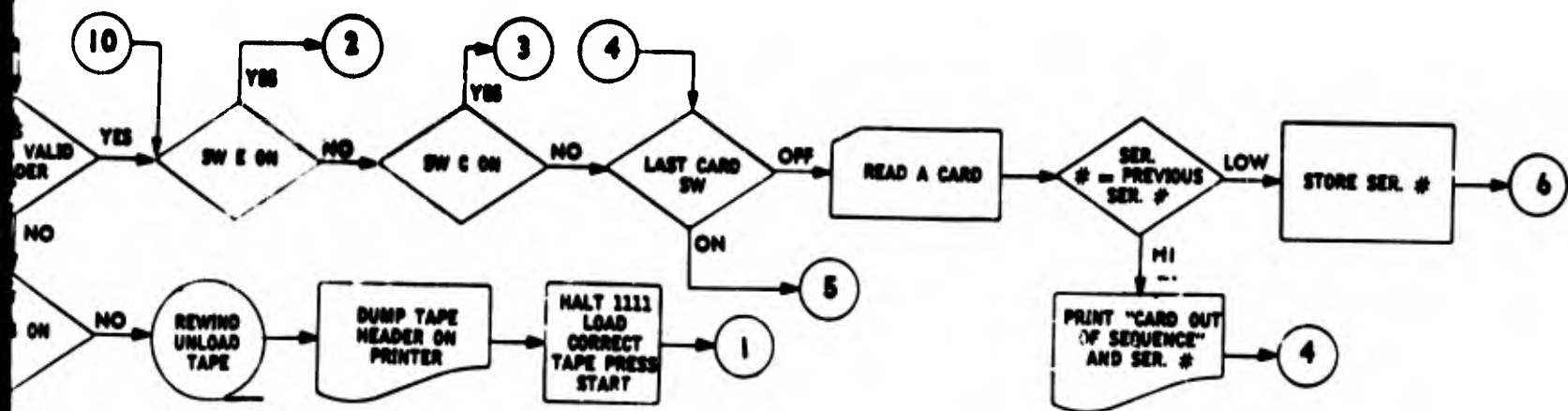




MACRO FLOW CHART		
PRINT ENLISTED TAPE		
J. A. McLaurin — March 18, 1968		
101B37.100	PS-01	1 of 1

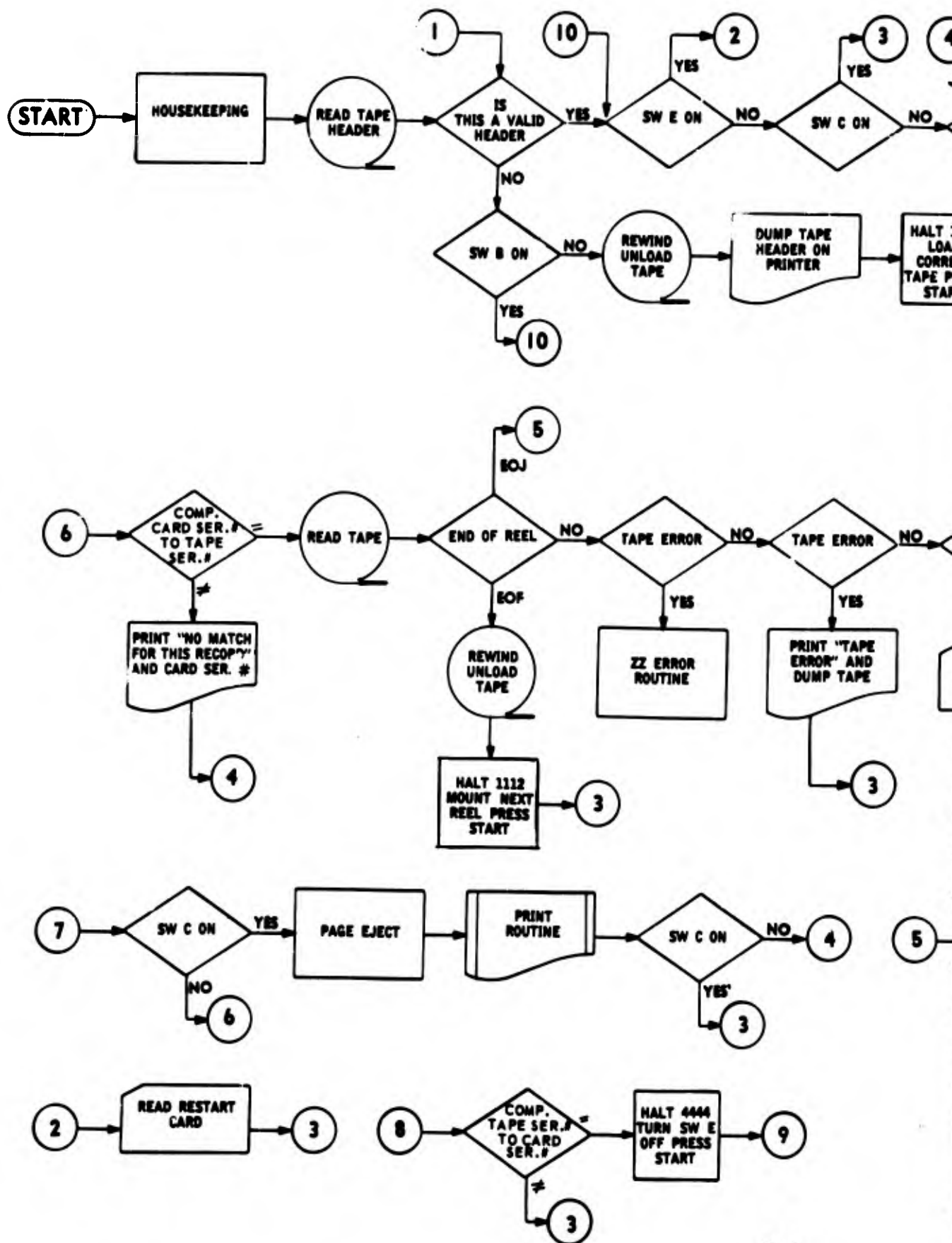
B

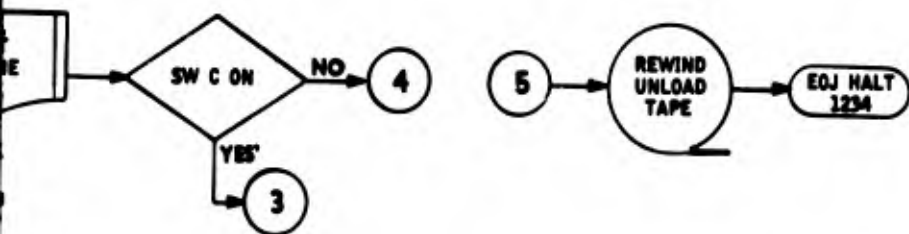
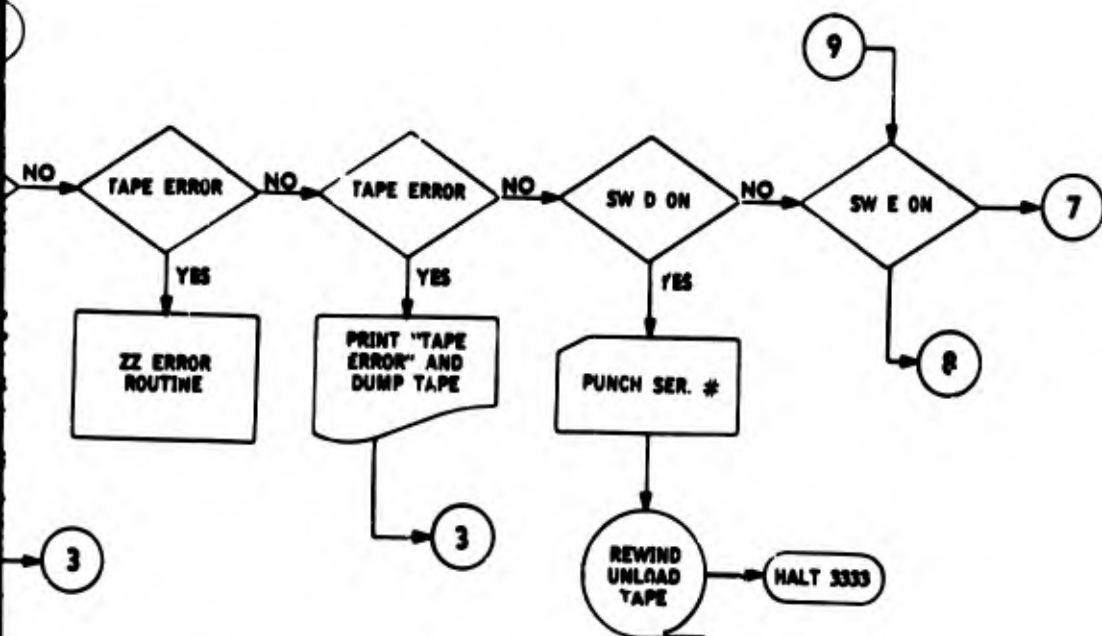
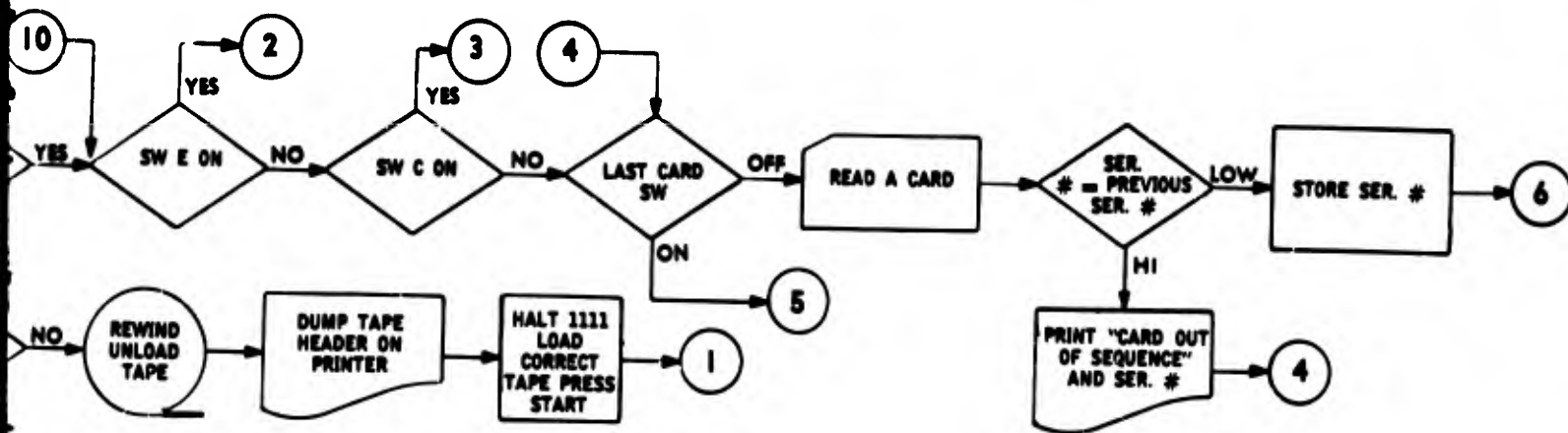




MACRO FLOW CHART		
PRINT OFFICER TAPE		
J. A. McLaurin — March 18, 1968		
101B27.100	PS-02	1 of 1

B





MACRO FLOW CHART		
PRINT OFFICE TAPE		
J. A. McLaurin — March 18, 1968		
101B27.100	PS-03	1 of 1

B

Program Specification
101B27.100
PS-01

1. General

1.1 Purpose of Program Specification. The objective for writing a Program Specification for Project 101B27.100, PS-01, is to describe the program design to permit program production by the program coder with sufficient detailed information so that the design ultimately may be translated into instructions.

1.2 Project Reference. The outputs of the Enlisted Active Duty Master Record Print Procedure, Project 101B27.100, PS-01, will be analyzed by the Scientific Advisory Teams at COMHUKFORLANT, COMFAIRWINGS-LANT and COMOCEANSYSLANT to determine what future application may be made of these data.

1.3 Applicable Documents.

- (a) Functional Description 101B27.100, FD-01.
- (b) Data Requirements Document 101B27.100, RD-01.
- (c) System Specification 101B27.100, SS-01.
- (d) Program Specification 101B27.100, PS-02.
- (e) Program Specification 101B27.100, PS-03.
- (f) Manual of the Active Duty Enlisted Master Magnetic Tape Record, NAVPERS 15, 949A Oct 1962.
- (g) COMASWFORLANT OPORDER 71-(YR).

2. Scope

2.1. Program Description. See System Specification 101B27.100, SS-01, paragraph 4.1.1.

2.2 Program Functions. This program will fulfill the requirement to produce a detailed list of the Active Duty Enlisted Master Magnetic Tape Record file. Programs described in Program Specification 101B27.100 PS-02 and PS-03 will fulfill the remaining programming requirements of this system. This program meets these requirements by:

- (a) A routine to check for the proper tape header label.
- (b) A routine to print incorruptable read errors.
- (c) A routine to check for and print wrong length record.
- (d) A routine to bypass padded records; those records consisting of all 9's.
- (e) A routine to select records by parameter cards for printing.
- (f) A routine to select all records for printing.
- (g) A routine to print a pertinent field within the record with descriptive headings.
- (h) An interrupt and restart routine.
- (i) A routine to handle blocked records.

2.3 Timing. It is anticipated that this program will print at the rate of eleven records per minute. When the complete Active Duty Enlisted Master Magnetic Tape Record file is printed throughput time will be approximately 15 hours. Maximum response time for one parameter will be approximately 10 minutes. This time will, of course, vary with the physical location of the record on the tape.

2.4 Accuracy. Not applicable.

2.5 Flexibility. See System Specification 101B27.100, SS-01, paragraph 2.6.

3. Environment

3.1 Software Environment

IBM Autocoder Compiler with ZZZERRR macro.

3.2 Program Interfaces. See System Specification 101B27.100, SS-01, paragraph 3.3.

3.3 Storage.

(a) Core Storage. Approximately 7,000 permanent positions.

(b) Tape Storage. One tape unit.

3.4 Security. Unclassified but handled on a "need to know" basis.

3.5 Controls. Not applicable.

4. Design Data.

4.1 Terminal Procedures.

(a) Start. Check tape header label to assure that the correct tape is being used as input.

(b) Stop. Rewind and unload tape.

(c) Interrupt.

(1) To interrupt when printing only those records selected by parameter cards, press stop on the printer during a page overflow cycle. Remove all parameter cards from the reader and the printed listing from the printer. Rewind and unload the input tape.

(2) To interrupt when printing all records turn on sense switch D. The program will stop printing after the next complete block of records have been printed and a restart card containing the service number of the next record to be printed will be punched; save this card as it is needed to restart the program. The input tape will be rewound and unloaded by the program. Remove the printed listing from the printer and the input tape from the tape unit.

(d) Restart.

(1) To restart when printing only those records selected by a parameter card, reload the program and all parameter

cards with a service number higher than the last one printed before interrupting.

- (2) To restart when printing all records, load the program followed by the restart card with sense switches A, C and E on. When the input tape is repositioned the program will halt with address 4444 in the B address register. Turn sense switch E off and press start. The program will start printing with the next sequential record.

4.2 Inputs. See System Specification 101B27.100, SS-01 inputs in paragraph 4.1.1.

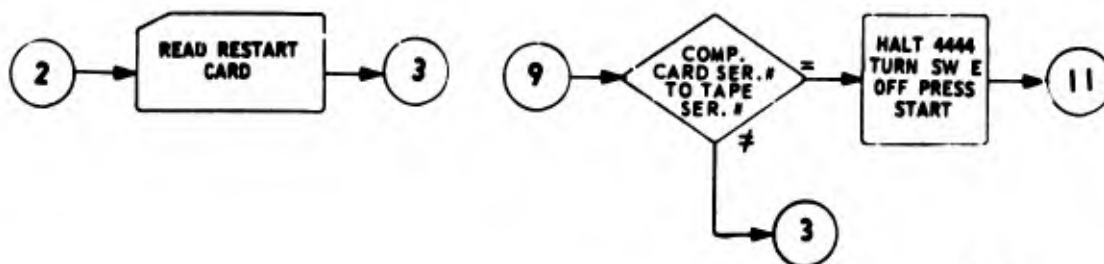
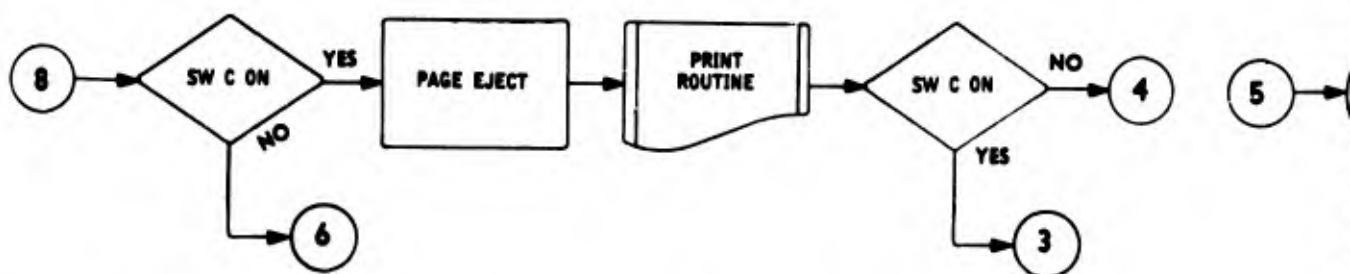
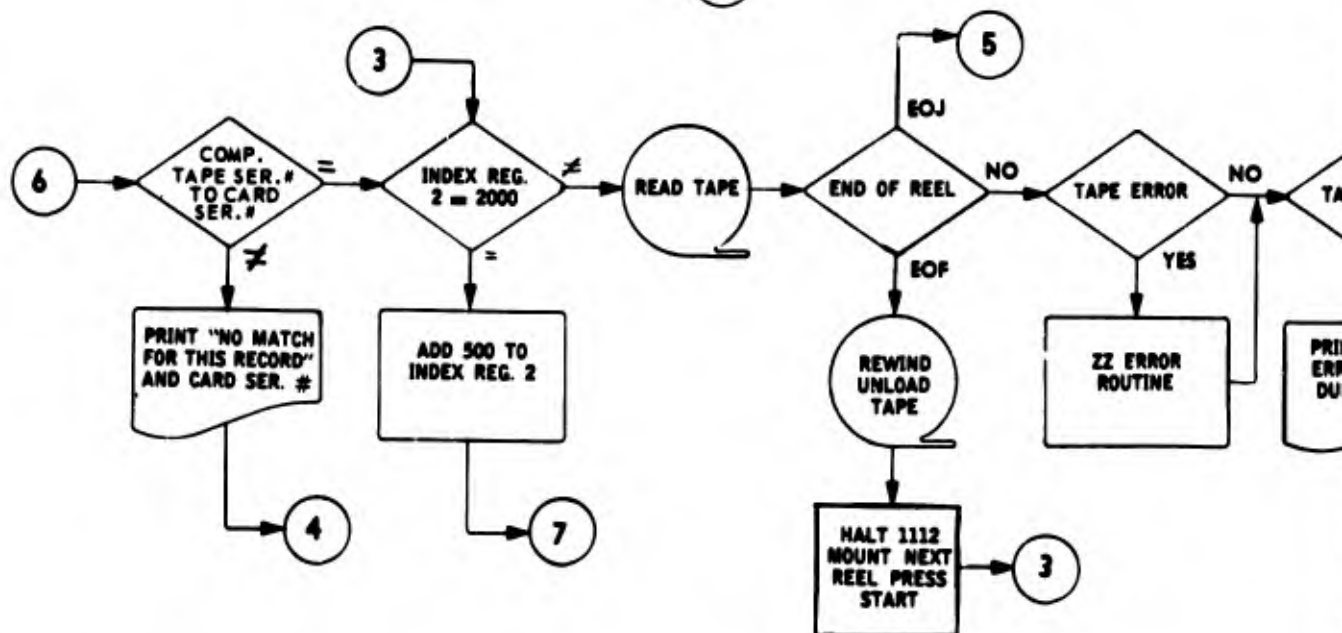
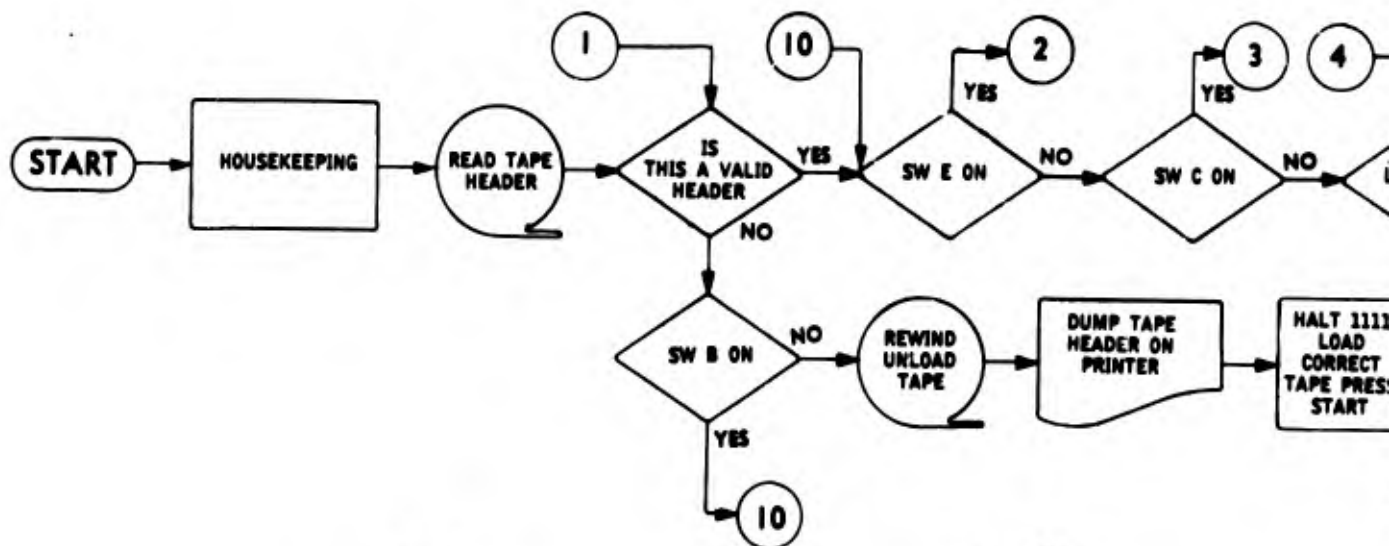
4.3 Outputs. See System Specification 101B27.100, SS-01 outputs in paragraph 4.1.1.

4.4 Data Environment.

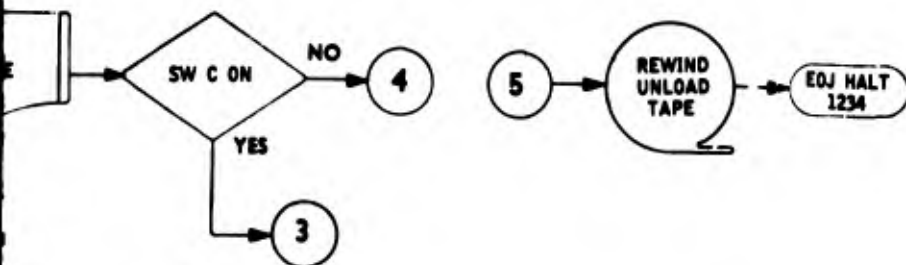
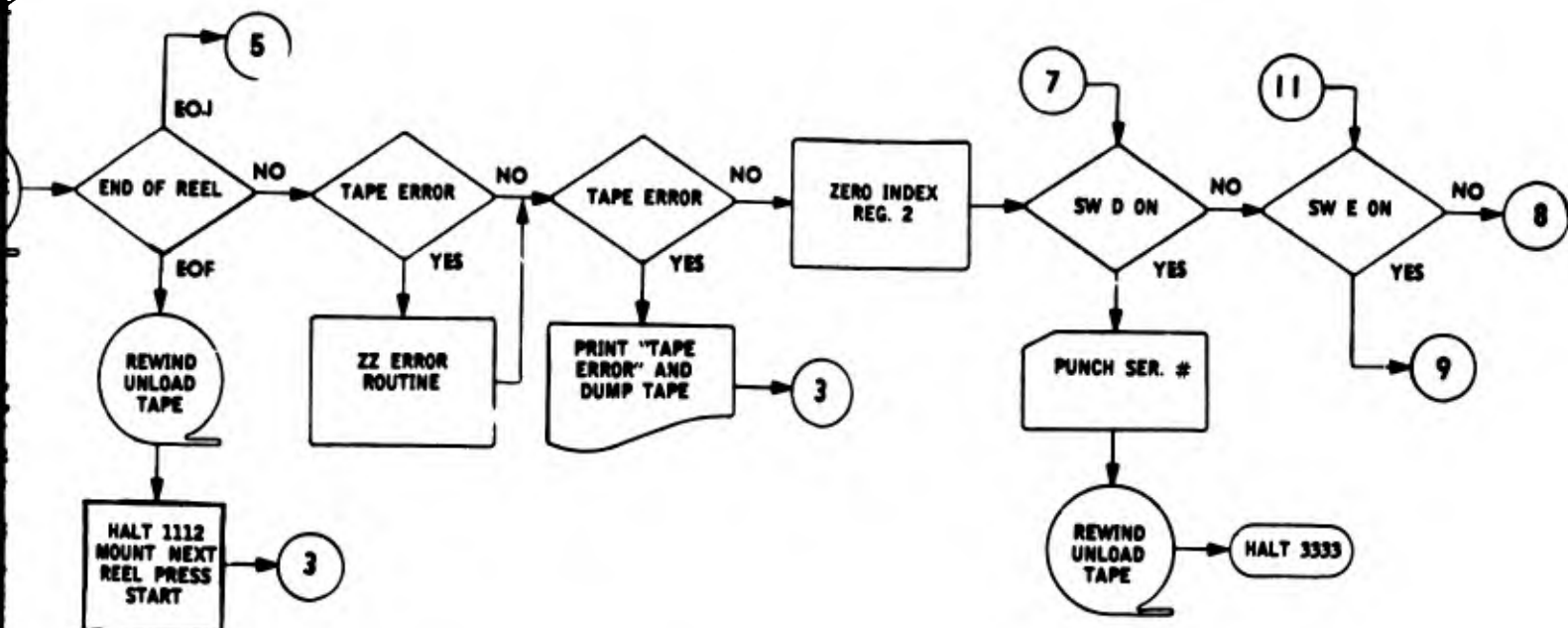
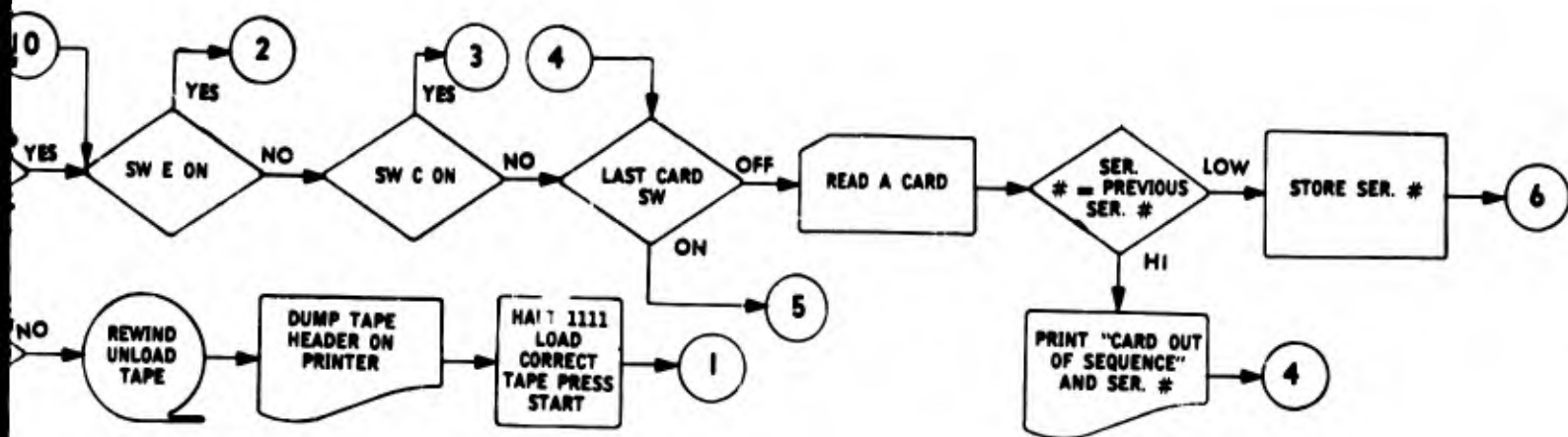
- (a) Title. Active Duty Enlisted Master Magnetic Tape Record.
- (b) Description. This record contains history data for enlisted personnel including such items as schools, grades, rate, aptitude, service data and activities.
- (c) Start of file. 80 character header label.
- (d) End of file. Tape mark, 80 character trailer label and tape mark.
- (e) Number of records. A maximum of approximately 10,000.
- (f) Start of record. First position blank.
- (g) End of record. Last position is a record mark.
- (h) Storage. Magnetic tape.
- (i) Normal order of file. Service number sequence.
- (j) File classification. Unclassified but handled on a "need to know" basis.

(k) Retention cycle. A minimum of two quarters.

4.5 Logical Flow. See macro charts.

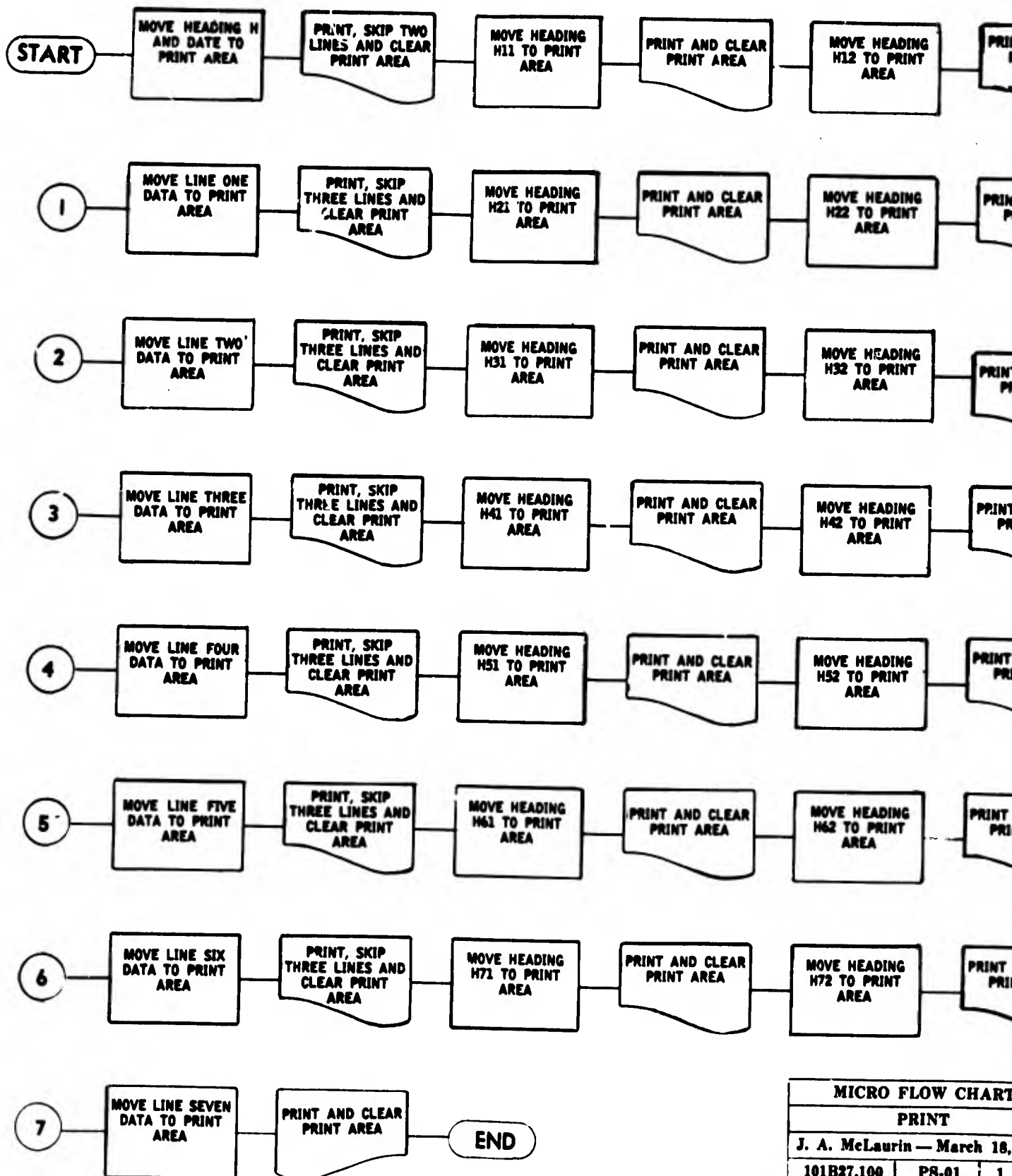


A

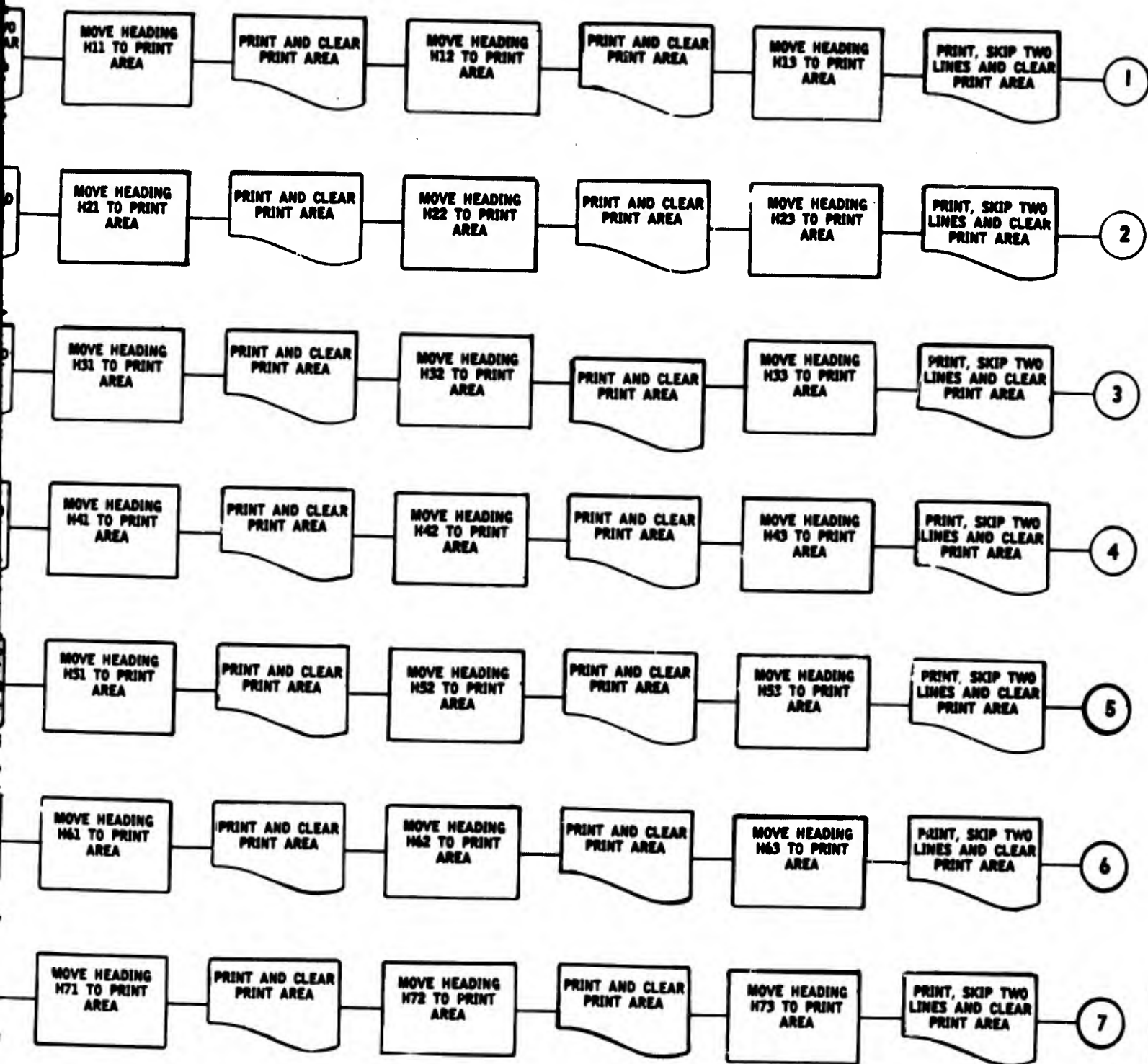


MACRO FLOW CHART		
PRINT ENLISTED TAPE		
J. A. McLaurin — March 18, 1968		
101B27.100	P8-01	1 of 1

B



MICRO FLOW CHART		
PRINT		
J. A. McLaurin — March 18,		
101B27.100	PS-01	1



MICRO FLOW CHART

PRINT

J. A. McLaurin — March 18, 1968

101B37.100 PS-01 1 of 1

END

B

CLEAR STORAGE 1 ,008015,022026,030037,044,049,053053V000000V000001026
 CLEAR STORAGE 2 L068116,105106,1101178101/19R=071029C0290563026/3001/099
 BOOTSTRAP ,008015,022029,036040,047054,061068,072/061039

PRINT ENLISTED

101827.100-PS-01

SEQ PG LIN LABEL OP OPERANDS

101 1 01 000 JOB PRINT ENLISTED TAPE
 102 1 02 CTL 5511
 103 1 021 ORG 335
 104 1 03 TAPE DA 5X499,+,X2
 105 1 031 ONEA 1,61
 106 1 04 ONE 58,101
 107 1 041 TP 8
 108 1 05 TWO 102,151
 109 1 06 THREEA 152,193
 110 1 061 THREE 200,224
 111 1 07 FOUR 225,285
 112 1 08 FIVE 286,368
 113 1 09 SIX 359,436
 114 1 10 SEVEN 437,498

101827.100-PS-01

DC
 DC
 DC
 DC
 DC
 DC
 115 1 11 GRMK DCW
 116 1 111 DCW
 117 1 12 INCLD ZZERRR

118 1 13 X1 EQU 089
 119 1 14 89 DCW 000
 120 1 15 91 DCW '00'
 121 1 16 99 DCW 000
 122 1 17 X2 EQU 94
 123 1 18 X3 EQU 99
 124 1 19 REEL DCW '001'

125 2 01 DCW '*-----PRESENT RATE-----* PROSPECTIVE RA

126 2 02 H11 DC 'TE NAVY CLASSIFICATION'

127 2 03 DCW 'AUTH DATE OF TERMINAL

128 2 04 H12 DC ' PNEC SNEC TRAP'

129 2 05 DCW 'SER SEX NAME ABBR CDD

130 2 06 DC 'E KEY CODE IND PAY GRADE AMBR CODE DATE PNEC

131 2 07 H13 DC ' SNEC KEY RATE RATE CODE'

132 2 08 DCW '*-----PROFICIENCY PAY-----* *-----E D'

133 2 09 DC ' U C A T I O N A P T I T J D E-----

134 2 10 H21 DC '---*'

135 2 11 DCW 'RET RET RET AWARD TEST *-----TECH TE

136 2 12 DC 'ST-----* BASIC BATTERY *-----SPECIAL-----* EV

137 2 13 H22 DC 'L LIM ORGIN LANG LANG'

138 2 14 DCW 'CODE CODE DATE ERR IND IND YRS USAFI IND READ MA

139 2 15 DC 'TH PHYS ELEC GCT ARI MECH CLER SNAR RADIO ETST S4

140 2 16 H23 DC 'OP DISS DUTY KEY CODE PROF'

141 2 17 DCW 'LANG DDD *-----

142 2 18 DC '-----S E R V I C E D A T A-----

2026,030037,044,049,053053N00000000001026
05106,1101178101/19R=071029C0290563026/8001/0991,001/00111710+
2029,036040,047054,061068,072/061039 ,0010011040

1
2
3

T ENLISTED TAPE

101827.100-PS-01

00001

PAGE

1

ANDS

SFK CT LDCN INSTRUCTION TYPE CARD

T ENLISTED TAPE

101827.100-PS-01

9,4,X2

0335
2834

01

0335

0395

0435

0342

0485

0527

0558

0619

0702

0770

0832

1 0834

1 1334

1 1834

1 2334

1 2834

1 2835

1 2835

FIELD

FIELD

SBFLD

FIELD

FIELD

FIELD

FIELD

FIELD

FIELD

FIELD

FIELD

2442K

2442K

2442K

2442K

2442K

2442K

2442K

MACRO

0089

3 0089

3 0094

3 0099

0094

0099

3 2839

50 2889

28 2917

50 2957

18 2985

50 3035

50 3085

24 3109

49 3158

50 3208

3 3211

50 3261

50 3311

24 3335

50 3385

50 3435

29 3464

50 3514

50 3564

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-----PRESENT RATE-----* PROSPECTIVE RA'

NAVY CLASSIFICATION'

DATE OF

TERMINAL

PNEC SNEC TRAP'

SEX NAME

ABBR CODE

Y CODE IND PAY GRADE ABBR CODE DATE PNEC'

C KEY RATE RATE CODE'

---PROFICIENCY PAY-----* *-----E D'

A T I O N A P T I T J D E-----

RET RET AWARD TEST *-----TEST TE'

---* BASIC BATTERY *-----SPECIAL-----* EV'

IM ORGIN LANG LANG'

CODE DATE ERR IND IND YRS USAFI IND READ MA'

PHYS ELEC GCT ARI MECH CLER SJVAR RADIO ETST S+

ISS DUTY KEY CODE PROF'

DDO *-----

-----S E R V I C E D A T A-----

B

PRINT ENLISTED TAPE

131827.100-PS-

[illegible]

	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
-----*						
SECURITY-----* LANG BRANCH TSS CURRENT	82		3596			47
ENTRY ACTIVE DUTY EXT RES DATE ACT	50		3546			49
OTH TYPE TERM MIL	50		3596			51
CODE SOURCE ABIL CLASS IND ENLIST	31		3727			52
DATE BASE DATE MDS MDS LOSS EXPIR	50		3777			54
SER ENL IND DBL	50		3827			56
DATA-----*	31		3858			57
TJUR *-----PRESENT ACTIVITY	26		3884			58
	50		3934			60
	7		3941			60
D A C T I V E D U T Y R E C O R D	50		3991			62
L INVOL INVOL PRIOR BIRTH CIT S	50		4041			64
ENDENT ROTA SHORE DIST PAMI COMP SEA	50		4091			65
PAMI BUPERS DIST	32		4123			67
IND MOS OFF DATE A23 REL R	50		4173			69
P S DATE DUTY FROM DIST DATE DUT	50		4223			71
CODE ACTIVITY COM	31		4254			72
---P R E S E N T A C T I V I T Y---	50		4304			74
*-----1 S T P A S T A C	50		4354			75
-----*	32		4386			77
ACT ACCT DA	50		4436			79
SPEC PAMI BUPERS DIST S/S HD	50		4486			81
ACT ACCT	28		4514			81
IVITY TYPE CODE DJS TRANS RECE	50		4564			83
CAT PAMI CODE ACTIVITY COMD CODE PD	50		4614			85
TYPE CODE DJS	32		4646			86
IVITY *-----2ND PAST ACTIVITY---	50		4696			88
-----C A R E E R H I S	50		4746			90
-----*	28		4774			90
PAMI BUPERS ACCT S/S DA	50		4824			92
ACT MOS HOME ACT MOS HOME ACT MOS	50		4874			94
HOME ACT	23		4997			94
TRANS PAMI CODE ACTIVITY CAT C	50		4947			96
OB PORT TYPE OB PORT TYPE JB PORT	50		4997			98
TYPE OB PORT TYPE	32		5029			99
S C H O O L H I S T O R Y-----*	50		5079			101
*-----PRO A	50		5129			103
	10		5139			103
E DATE DATE DATE	50		5189			105
SPEC CHG FIN SP LOSS PAC DIST S	50		5239			107
	8		5247			107
COMP SCH COMP SCH COMP SCH C	50		5297			109
ND CAT IND IND PRO IND IND PAMI C	50		5347			111
	13		5360			111
	50		5410			113
	25		5435			113
	24		5459			114
	25		5484			115
	50		5534			117
	50		5584			119

B

PRINT ENLISTED TAPE

101827.100-PS-

SEQ	PG	LN	LABEL	OP	OPERANDS
193	4	09	EW2	DC	' ++ +++++ +++++ +++++ +++++
194	4	10		DCW	' / + / / ++ +++++ +++++ +++++ +++++ / /
195	4	11	EW3A	DC	' + / / + / / +++ / /
196	4	111		DCW	' ++ + / ++ /
197	4	12	EW3	DC	' / +++ ++ + ++ +++++ +++++
198	4	13		DCW	' +++ +++++ +++++ +++++ +++++ ++ / / + ++ +++++
199	4	14		DC	' +++ +++++ +++++ / + / ++ +++++ +++++ / + /
200	4	15	EW4	DC	' +++ +++++ ++ +++++ ++
201	4	16		DCW	' +++ ++ ++ ++ ++ +++++ +++++ /
202	4	17		DC	' / + / / ++ +++++ +++++ +++++ +++++
203	4	18	EW5	DC	' + ++ ++ ++ ++ +++++ +++++ +++++ +++++
204	4	19		DCW	' +++ / / + / / +++ ++ +++++ +++++
205	4	20		DC	' +++ / / + +++++ ++ ++ +++++ +++++ ++ +++++
206	4	21	EW6	DC	' + ++ +++++ +++++ ++ +++++ +++++ +++++ +++++
207	4	22		DCW	' + + / + + / + + / + + / + +
208	4	23		DC	' / +++++ +++++ +++++ +++++ +++++ +++++ +++++ +++++
209	4	24	EW7	DC	' +++ ++ /
210	5	01	START	B	HEAD
211	5	01		SW	1
212	5	010		BSS	RS,E
213	5	011		BSS	RDTP,C
214	5	013		MLC	' ',ONEA
215	5	013		MLC	ONEA
216	5	02	READ	BLC	EOJ
217	5	03		R	
218	5	04		C	7,PRE=7
219	5	05		BH	MESS1
220	5	06		MLC	7,PRE
221	5	07	COMP	C	TP,PRE
222	5	08		RL	MESS2
223	5	09		BH	RDTP
224	5	091	PRINT	CC	1
225	5	10		MLC	H,290
226	5	101		MLC	'D A T E',323
227	5	102		MLC	HDATE,332
228	5	103		CC	S
229	5	11		W	
230	5	12		CS	
231	5	13		CS	
232	5	14		MLC	H11,321
233	5	15		W	
234	5	16		CS	
235	5	17		CS	
236	5	18		MLC	H12,326
237	5	19		W	
238	5	20		CS	
239	5	21		CS	
240	5	22		MLC	H13,326
241	5	23		CC	S
242	5	24		W	

ND	SFX	CT	LDEN	INSTRUCTION	TYPE	CARD
++++ +++++ +++++ +++++	27		5511			119
/ / ++ +++++ +++++ +++++ +++++ / /	50		5661			121
/ + / / +++ / /	29		5590			122
+ / ++ /	18		5708			123
++ ++ + ++ +++++ +++++	30		5738			124
++++ +++++ +++++ +++++ ++ / + ++ +++++	50		5788			126
+++++ +++++ / + / ++ +++++ / + /	50		5838			128
++++ ++ +	31		5869			129
++ ++ ++ ++ ++ ++ /	50		5919			131
/ / ++ +++++ +	50		5969			133
++ ++	30		5999			134
/ / + / / +++++ +	50		6049			136
/ / + +++++ ++ +++++ ++ +++++ ++	48		6097			138
+ +++++ ++ +++++	32		6129			139
/ + + / + + / + +	50		6179			141
++++ +++++ +++++ +++++ ++ ++ +++++ +++++	50		6229			143
+++ /	14		6243			143
	4		6244	3	Q2X	143
	4		6248	3	001	143
	5		6252	3	B6Z E	143
	5		6257	3	R3S C	144
	7		6262	4	E2T 325	144
	4		6269	4	325	144
	5		6273	3	B4V A	144
	1		6278	1		144
	7		6279	3	007 E3+	144
	5		6286	3	P8W U	144
	7		6291	4	007 E3+	145
	7		6298	3	342 E3+	145
	5		6305	3	Q0U T	145
	5		6310	3	R3S U	145
	2		6315	F	1	145
	7		6317	4	191 290	145
	7		6324	4	E3X 323	145
	7		6331	4	F0+ 332	146
	2		6338	F	S	145
	1		6340	2		145
	1		6341	/		145
	1		6342	/		145
	7		6343	4	R17 321	145
	1		6350	2		147
	1		6351	/		147
	1		6352	/		147
	7		6353	4	R85 325	147
	1		6360	2		147
	1		6361	/		147
	1		6362	/		147
	7		6363	4	A09 325	148
	2		6370	F	S	148
	1		6372	2		148

PRINT ENLISTED TAPE

101827

SEQ	PG	LIN	LABEL	OP	OPERANDS
243	5	25		CS	
244	5	251		CS	
245	5	252		LCA	FW1A,275
246	5	253		MCE	ONEA,275
247	6	01		LCA	EW1,326
248	6	02		MCE	ONE,326
249	6	020		MZ	ONE,326
250	6	021		CC	T
251	6	03		W	
252	6	04		CS	
253	6	05		CS	
254	6	06		MLC	H21,302
255	6	07		W	
256	6	08		CS	
257	6	09		CS	
258	6	10		MLC	H22,329
259	6	11		W	
260	6	12		CS	
261	6	13		CS	
262	6	14		MLC	H23,329
263	6	141		CC	S
264	6	15		W	
265	6	16		CS	
266	6	17		CS	
267	6	18		LCA	EW2,327
268	6	19		MCE	TWO,327
269	6	190		MZ	TWO,327
270	6	191		CC	T
271	6	20		W	
272	6	21		CS	
273	6	22		CS	
274	6	23		MLC	H31,331
275	6	24		W	
276	6	25		CS	
277	6	26		CS	
278	6	27		MLC	H32,331
279	6	28		W	
280	6	29		CS	
281	6	30		CS	
282	7	01		MLC	H33,331
283	7	011		CC	S
284	7	02		W	
285	7	03		CS	
286	7	04		CS	
287	7	041		LCA	EW3A,279
288	7	042		MCE	THREEA,279
289	7	05		LCA	EW3,330
290	7	06		MCE	THREE,330
291	7	060		MZ	THREE,330
292	7	061		CC	T

A

SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1		6373	/		148
1		6374	/		148
7		6375	L J3V	275	148
7		6382	E 325	275	148
7		6389	L J8U	326	149
7		6396	E 4L5	326	149
7		6403	Y 4L5	326	149
2		6410	F T		149
1		6412	2		149
1		6413	/		149
1		6414	/		149
7		6415	M 311	302	150
1		6422	2		150
1		6423	/		150
1		6424	/		150
7		6425	M C35	329	150
1		6432	2		150
1		6433	/		150
1		6434	/		151
7		6435	M D54	329	151
2		6442	F S		151
1		6444	2		151
1		6445	/		151
1		6446	/		151
7		6447	L H1/	327	151
7		6454	E 4Q5	327	152
7		6461	Y 4Q5	327	152
2		6468	F T		152
1		6470	2		152
1		6471	/		152
1		6472	/		152
7		6473	M E96	331	152
1		6480	2		153
1		6481	/		153
1		6482	/		153
7		6483	M 327	331	153
1		6490	2		153
1		6491	/		153
1		6492	/		153
7		6493	M H58	331	154
2		6500	F S		154
1		6502	2		154
1		6503	/		154
1		6504	/		154
7		6505	L W94	279	154
7		6512	E 5K7	279	154
7		6519	L X3Y	330	155
7		6526	E 5N8	330	155
7		6533	Y 5N8	330	155
2		6540	F T		155

B

PRINT ENLISTED TAPE

101827.100-PS

SEQ	PG	LIN	LABEL	OP	OPERANDS
293	7	07		W	
294	7	08		CS	
295	7	09		CS	
296	7	10		MLC	H41A,226
297	7	101		MLC	H41B,332
298	7	11		W	
299	7	12		CS	
300	7	13		CS	
301	7	14		MLC	H42,332
302	7	15		W	
303	7	16		CS	
304	7	17		CS	
305	7	18		MLC	H43,331
306	7	181		CC	S
307	7	19		W	
308	7	20		CS	
309	7	21		CS	
310	7	22		LCA	EW4,332
311	7	23		MCE	FJUR,332
312	7	230		MZ	FJUR,332
313	7	231		CC	T
314	7	24		W	
315	7	25		CS	
316	7	26		CS	
317	7	27		MLC	H51,332
318	7	28		W	
319	7	29		CS	
320	8	01		MLC	H52,328
321	8	011		CS	
322	8	02		W	
323	8	03		CS	
324	8	04		CS	
325	8	05		MLC	H53,332
326	8	051		CC	S
327	8	06		W	
328	8	07		CS	
329	8	08		CS	
330	8	09		LCA	EW5,331
331	8	10		MCE	FIVE,331
332	8	100		MZ	FIVE,331
333	8	101		CC	T
334	8	11		W	
335	8	12		CS	
336	8	13		CS	
337	8	14		MLC	H51,332
338	8	15		W	
339	8	16		CS	
340	8	17		CS	
341	8	18		MLC	H62,331
342	8	19		W	

SFK	CT	LCN	INSTRUCTION	TYPE	CARD
1		5542	2		155
1		5543	/		155
1		5544	/		155
7		5545	M	484 225	156
7		5552	M	141 332	156
1		5559	2		156
1		5560	/		156
1		5561	/		156
7		5562	M	12T 332	156
1		5569	2		156
1		5570	/		157
1		5571	/		157
7		5572	M	25J 331	157
2		5579	F	S	157
1		5581	2		157
1		5582	/		157
1		5583	/		157
7		5584	L	Y6Z 332	158
7		5591	E	5J9 332	158
7		5598	Y	5J9 332	158
2		5605	F	T	158
1		5607	2		158
1		5609	/		158
1		5609	/		158
7		5610	M	38W 332	159
1		5617	2		159
1		5618	/		159
7		5619	M	51U 328	159
1		5626	/		159
1		5627	2		159
1		5628	/		159
1		5629	/		160
7		5630	M	54W 332	160
2		5637	F	S	160
1		5639	2		160
1		5640	/		160
1		5641	/		160
7		5642	L	Z9Z 331	160
7		5649	E	7-2 331	161
7		5656	Y	7-2 331	161
2		5663	F	T	161
1		5665	2		161
1		5666	/		161
1		5667	/		161
7		5669	M	77J 332	161
1		5675	2		162
1		5676	/		162
1		5677	/		162
7		5678	M	89X 331	162
1		5685	2		162

B

PRINT ENLISTED TAPE

SEQ	PG	LIN	LABEL	OP	OPERANDS
343	8	20		CS	
344	8	21		CS	
345	8	22		MLC	H53,332
346	8	221		CC	S
347	8	23		W	
348	8	24		CS	
349	8	25		CS	
350	8	26		LCA	EW6,331
351	8	27		MCE	SIX,331
352	8	270		MZ	SIX,331
353	8	271		CC	T
354	8	28		W	
355	8	29		CS	
356	9	01		CS	
357	9	02		MLC	H71,314
358	9	03		W	
359	9	04		CS	
360	9	05		CS	
361	9	06		MLC	H72,313
362	9	07		W	
363	9	08		CS	
364	9	09		CS	
365	9	10		MLC	H73,313
366	9	101		CC	S
367	9	11		W	
368	9	12		CS	
369	9	13		CS	
370	9	14		LCA	EW7,314
371	9	15		MCE	SEVEN,314
372	9	151		CC	T
373	9	16		W	
374	9	17		CS	
375	9	18		CS	
376	9	19		BSS	RDTP,C
377	9	20		B	RFAD
378	9	21	MESS1	MLC	'CARD OUT OF SEQUENCE',220
379	9	22		MLC	80,301
380	9	23		B	PRMESS
381	9	24	MESS2	MLC	'NO MATCH FOR THIS CARD',222
382	9	25		MLC	80,303
383	9	26	PRMESS	CC	1
384	9	27		W	
385	9	28		CS	
386	9	29		CS	
387	9	30		B	READ
388	10	01	HEAD	SBR	HDEX+3
389	10	03		RT	1,TAPE
390	10	04	CMPTP	C	TAPE+9,'E145XS W1 '
391	10	05		BU	INV
392	10	051	RLND	C	TAPE+35,REEL

A

NDS

SFX CT LDCN INSTRUCTION TYPE CARD

32	1	6586	/		152
	1	6587	/		152
	7	6588	M #22	332	163
	2	6595	F S		153
	1	6697	2		153
	1	6698	/		153
	1	6699	/		153
31	7	6700	L J22	331	153
31	7	6707	E 7PD	331	163
31	7	6714	V 7PD	331	154
	2	6721	F T		154
	1	6723	2		154
	1	6724	/		154
4	1	6725	/		154
	7	6726	M /32	314	154
	1	6733	2		154
	1	6734	/		155
3	1	6735	/		155
	7	6736	M S4X	313	155
	1	6743	2		155
	1	6744	/		155
	1	6745	/		155
3	7	6746	M T64	313	155
	2	6753	F S		156
	1	6755	2		155
	1	6756	/		156
4	1	6757	/		156
314	7	6758	L K4T	314	156
	7	6765	E 9L2	314	156
	2	6772	F T		156
	1	6774	2		157
	1	6775	/		157
	1	6776	/		157
	5	6777	3 R3S	C	157
	4	6782	3 <7T		157
	7	6785	M E5X	220	157
	7	6793	M 080	301	157
	4	6800	3 21Y		158
	7	6804	M E7Z	222	158
	7	6811	M 080	303	158
	2	6818	F 1		158
	1	6820	2		158
	1	6821	/		158
	1	6822	/		158
	4	6823	3 K7T		159
	4	6827	4 R3/		159
	8	6831	M (U1	3L5 R	159
	7	6839	C 3M4	E9Z	159
	5	6845	3 28/	/	159
	7	6851	C 3PD	Q39	159

OUT OF SEQUENCE',220

TCH FOR THIS CARD',222

'E145XS W1

,REEL

B

PRINT ENLISTED TAPE

101827.100-PS-01

SEQ	PG	LIN	LABEL	OP	OPERANDS
393	10	052		BU	INV
394	10	053		MA	'001',REEL
395	10	053		MLC	TAPE+17,HDATE=8
396	10	054		B	HDEX
397	10	06	INV	BSS	HDEX,B
398	10	07		RWU	1
399	10	08		MLC	'INVALID HEADER',214
400	10	09		MLC	TAPE+79,300
401	10	091		MLC	TAPE+17,HDATE
402	10	10		CC	1
403	10	11		W	
404	10	12		CS	
405	10	13		CS	
406	10	14		H	1111,1111 3AD HEADER
407	10	15		B	HEAD+4
408	10	16	HDEX	H	0
409	10	17	RDTP	C	X2,'-00'
410	10	18		BE	GET
411	10	19		MA	'500',X2
412	10	191		C	TAPE+19,'9999999999'
413	10	192		BE	RDTP
414	10	20		B	OUT
415	10	201	GET	MLC	'000',X2
416	10	21		RT	1,TAPE
417	10	210		NOP	0
418	10	211		BEF	EDR
419	10	22		BER	ZZERRR
420	10	23		BER	ERR
421	10	24		BCE	WLR,GRMK,
422	10	25		MLC	' ',GRMK
423	10	26	RSSW	BSS	RSS,E
424	10	27		BSS	INR,D
425	11	01	OUT	BSS	PRINT,C
426	11	02		R	COMP
427	11	021	ERR	MLC	'000',X2
428	11	022		CC	1
429	11	023		MLC	'TAPE ERRDR',210
430	11	024		W	
431	11	03	SW	SW	201
432	11	05		MLC	TAPE+99,300
433	11	051		MLC	
434	11	06		W	
435	11	07		MLC	TAPE+199,300
436	11	08		MLC	
437	11	09		MLC	
438	11	10		W	
439	11	11		MLC	TAPE+299,300
440	11	12		MLC	
441	11	13		MLC	
442	11	14		W	

S

SFX CT LDCN INSTRUCTION TYPE CARD

EEL
,HDATE=8D HEADER',214
,300
,HDATE

11 BAD HEADER

, '9999999999'

RDR',210

300

,300

,300

5	6858	3	28/ /	170
7	6863	4	E9S Q39	170
7	6870	4	342 F04	170
4	6877	3	32Y	170
5	6881	3	32Y B	170
5	6886	J	(U1 U	170
7	6891	4	F1U 214	171
7	6898	4	4J4 300	171
7	6905	4	342 F04	171
2	6912	F	1	171
1	6914	2		171
1	6915	/		171
1	6916	/		171
7	6917	4	/11 /11	172
4	6924	3	Q3/	172
4	6928	3	000	172
7	6932	3	094 F1X	172
5	6939	3	25X S	172
7	6944	4	F24 094	172
7	6951	3	344 F34	173
5	6958	3	33S S	173
4	6963	3	+2W	173
7	6967	4	F3T 094	173
8	6974	4	(J1 3L5 2	173
4	6982	4	000	173
5	6986	3	B0V K	174
5	6991	3	C3/ L	174
5	6996	3	+3V L	174
8	7001	3	A3S Q35	174
7	7009	4	E2T Q35	174
5	7016	3	B7Y E	174
5	7021	3	C0V D	175
5	7026	3	L1V C	175
4	7031	3	K9Y	175
7	7035	4	F3T 094	175
2	7042	F	1	175
7	7044	4	F4T 210	175
1	7051	2		175
4	7052	4	201	176
7	7056	4	4L4 300	176
1	7063	4		176
1	7064	2		176
7	7065	4	5L4 300	176
1	7072	4		176
1	7073	4		176
1	7074	2		177
7	7075	4	6L4 300	177
1	7082	4		177
1	7083	4		177
1	7084	2		177

B

PRINT ENLISTED TAPE

101027.100-PS-

SEQ	PG	LIN	LABEL	OP	OPERANDS
443	11	15		MLC	TAPE+399,300
444	11	16		MLC	
445	11	17		W	
446	11	18		MLC	TAPE+499,300
447	11	19		MLC	
448	11	20		W	
449	11	201		CS	
450	11	202		CS	
451	11	21		C	'-00',X2
452	11	22		BE	ERRX
453	11	23		MA	'500',X2
454	11	24		R	SW
455	11	25	ERRX	B	RDTP
456	12	01	WLR	CC	1
457	12	02		MLC	'WRONG LENGTH RECD',219
458	12	03		W	
459	12	04		MLC	'000',X2
460	12	05	RCE	BCE	BLANK,TAPE,
461	12	06		MA	'001',X2
462	12	07		R	RCE
463	12	08	BLANK	MLC	' ',TAPE
464	12	09		MA	'001',X2
465	12	10		C	'000',X2
466	12	11		BL	BLANK
467	12	111		MLC	'000',X2
468	12	12		R	SW
469	12	13	END	RT	1,TAPE
470	12	14		C	TAPE+2,'EDJ'
471	12	15		BE	EDJ
472	12	151		RWU	1
473	12	16		H	1112,1112
474	12	17		B	HEAD
475	12	18		R	RDTP
476	12	19	EDJ	RWU	1
477	12	20		CC	1
478	12	21		MLC	'END OF JCB',255
479	12	22		W	
480	12	23		CC	1
481	12	24		H	1234,1234
482	12	25	RS	SW	1
483	12	26		R	
484	12	27		B	GET
485	12	28	RSS	C	TP,7
486	12	29		BE	HALT
487	12	30		B	GET
488	12	31	HALT	H	4444,4444
489	12	32		B	RSSW
490	12	33	INR	MLC	TP,107
491	12	34		P	
492	12	35		CS	180

TURN SW E OFF

A

OS

99,300

99,300

K2

K2

LENGTH RECORD, 219

K2

TAPE,

K2

E

K2

K2

K2

EJJ

12

JJB, 255

34

44 TURN SW E OFF

SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7		7085	M 7L4	300	177
1		7092	M		177
1		7093	2		178
7		7094	M 8L4	300	178
1		7101	M		178
1		7102	2		178
1		7103	/		178
1		7104	/		178
7		7105	C F1X	094	178
5		7112	3 A2Y	S	179
7		7117	M F24	094	179
4		7124	B +5S		179
4		7128	3 R3S		179
2		7132	F 1		179
7		7134	M F6S	219	179
1		7141	2		179
7		7142	M F3T	094	180
8		7149	3 A6Y	3L5	180
7		7157	M E9S	094	180
4		7164	3 A4Z		180
7		7168	M E2T	3L5	180
7		7175	M E9S	094	181
7		7182	C F6V	094	181
5		7189	3 A6Y	T	181
7		7194	M F3T	094	181
4		7201	3 +5S		181
8		7205	M (U1	3L5 R	181
7		7213	C 3L7	F6Y	182
5		7220	3 B4V	S	182
5		7225	J (U1	U	182
7		7230	. /12	/12	182
4		7237	3 Q2X		182
4		7241	3 R3S		182
5		7245	J (U1	U	182
2		7250	F 1		183
7		7252	M F7Y	255	183
1		7259	2		183
2		7260	F 1		183
7		7262	. S34	S34	183
4		7269	. J01		183
1		7273	1		183
4		7274	3 R6X		184
7		7278	C 3M2	007	184
5		7285	B B9J	S	184
4		7290	3 R6X		184
7		7294	. 44U	44J	184
4		7301	3 +1W		184
7		7305	M 3M2	107	184
1		7312	4		185
4		7313	/ 180		185

PRINT ENLISTED TAPE

101827.100-

SEQ	PG	LIN	LABEL	OP	OPERANDS
493	12	36		P	
494	12	37		P	
495	12	38		RWD	1
496	12	39		H	3333,3333
497			ZZERRP	SHR	ZZESAX+6
498				SHR	ZZEDUM,0
499				SHR	ZZESX1+6,0+X1
500			ZZESAX	SHR	89,0
501				SHR	ZZERX1+3
502				MLC	15989+X1,ZZENJP
503				MLC	
504				MN	15981+X1,*+4
505				BSP	0
506			ZZESX1	SHR	89,0
507			ZZEREA	DCW	=8
508			ZZENJP	DCW	=4
509				HER	*+5
510			ZZERX1	B	0
511				PCE	ZZERX1,ZZECNT,8
512				MN	ZZEREA-4,*+4
513			ZZERSP	BSP	0
514				A	ZZEDNE,ZZECNT
515				C	ZZECNT,ZZESIX
516				RH	ZZEREA-7
517				BCE	*+5,ZZECNT,8
518				B	ZZERSP
519				MN	ZZEREA-4,ZZERS1+3
520				MN	ZZEREA-4,ZZERTT+3
521				SW	ZZEGMK
522			ZZERTT	RT	0,ZZEDUM
523				A	ZZEDNE,ZZERDT
524				PCE	*+5,ZZERDT,3
525				B	ZZERTT
526				CW	ZZEGMK
527			ZZERS1	BSP	0
528				B	ZZEREA-7
529			ZZEDNE	DCW	'1'
530			ZZESIX	DCW	'6'
531			ZZERDT	DCW	=1
532			ZZECNT	DCW	=1
533			ZZEDUM	DC	=1
534			ZZEGMK	DC	' '
				DCW	' '
218			PRE		=07
226					'D A T E'
378					'CARD OUT OF SEQUENCE'
381					'NO MATCH FOR THIS CARD'
390					'E145XS W1'
					'001'
395			HDATE		=08

A

RANDS

B,3333
SAX+6
DUM,0
SX1+6,0+X1
0
RX1+3
89+X1,ZZENJP

1+X1,++4

X1,ZZECNT,8
EA-4,++4

NE,ZZECNT
NT,ZZESIX
EA-7

ZZECNT,8
SP
FA-4,ZZERS1+3
EA-4,ZZERTT+3

MK
EDUM
NE,ZZERDT
ZZERDT,3

TT
MK
EA-7

T E'
D OUT OF SEQUENCE'
MATCH FOR THIS CARD'
EXS W1 '

SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1	7317	4			185
1	7318	4			185
5	7319	J	(U1 U		185
7	7324	.	C33 C33		185
4	7331	+	C5V	GEN	185
7	7335	+	E2/ 000	GEN	185
7	7342	+	C8W 0+0	GEN	185
7	7349	+	089 000	GEN	185
4	7356	+	00X	GEN	185
7	7360	+	IYI C9Y	GEN	185
1	7367	+		GEN	185
7	7368	0	IYA C7Y	GEN	187
5	7375	J	(U0 B	GEN	187
7	7380	+	089 000	GEN	187
8	7394			GEN	187
4	7398			GEN	187
5	7399	3	00Y L	GEN	187
4	7404	3	000	GEN	188
8	7408	3	00U E2# 8	GEN	188
7	7416	0	C9# D2W	GEN	188
5	7423	J	(J0 B	GEN	188
7	7428	A	E1X E2#	GEN	188
7	7435	0	E2# E1Y	GEN	188
5	7442	3	C8X U	GEN	189
8	7447	3	05Z E2# 8	GEN	189
4	7455	8	D2T	GEN	189
7	7459	0	C9# E1/	GEN	189
7	7466	0	C9# D8#	GEN	189
4	7473	.	E2S	GEN	189
8	7477	+	(J0 E2/ 2	GEN	190
7	7485	A	E1X E1Z	GEN	190
8	7492	3	E0U E1Z 3	GEN	190
4	7500	8	D7X	GEN	190
4	7504	1	E2S	GEN	190
5	7508	J	(U0 B	GEN	190
4	7513	3	C8X	GEN	191
1	7517			GEN	191
1	7518			GEN	191
1	7519			GEN	191
1	7520			GEN	191
1	7521			GEN	191
1	7522			GEN	191
1	7523			LIT	191
7	7530			AREA	191
7	7537			LIT	192
20	7557			LIT	192
22	7579			LIT	193
10	7589			LIT	193
3	7592			LIT	193
8	7500			AREA	194

B

PRINT ENLISTED TAPE

101327.100-PS-

SEQ	PG	LIN	LABEL	OP	OPERANDS
		399			'INVALID HEADER'
					'-00'
					'500'
		412			'9999999999'
					'000'
		429			'TAPE ERROR'
		457			'WRONG LENGTH RECORD'
					'N00'
					'EOJ'
		478			'END OF JOB'
535	12	25		END	START

A

ANDS

VALID HEADER

9999999

ERROR

NG LENGTH RECORD

OF JOB

SFX	CT	LCN	INSTRUCTION	TYPE	CARD
14		7514		LIT	194
3		7617		LIT	194
3		7620		LIT	194
10		7530		LIT	194
3		7633		LIT	195
10		7643		LIT	195
19		7552		LIT	195
3		7665		LIT	195
3		7558		LIT	195
10		7578		LIT	195
			/ K4U 080		197

B

Program Specification
101B27.100
PS-02

1. General

1.1 Purpose of Program Specification. The objective for writing a Program Specification for Project 101B27.100, PS-02 is to describe the program design to permit program production by the program coder with sufficient detailed information so that the design ultimately may be translated into instruction.

1.2 Project Reference. The outputs of the Officer Active Duty Master Record Print Procedure, Project 101B27.100, PS-02 will be analyzed by the Scientific Advisory Teams at COMHUKFORLANT, COMFAIRWINGSLANT and COMOCEANSYSLANT to determine what future application may be made of these data.

1.3 Applicable Documents.

- (a) Functional Description 101B27.100, FD-01.
- (b) Data Requirements Document 101B27.100, RD-01.
- (c) System Specification 101B27.100, SS-01.
- (d) Program Specification 101B27.100, PS-01.
- (e) Program Specification 101B27.100, PS-03.
- (f) Manual of the Active Duty Officer Master Magnetic Tape Record NAVPERS 15, 921A May 1965.
- (g) COMASWFORLANT OPORDER 71-(YR).

2. Scope.

2.1 Program Description. See System Specification 101B27.100, SS-01, paragraph 4.1.2.

2.2 Program Function. This program will fulfill the requirement to produce a detailed list of the old Active Duty Master Magnetic Tape Record file. Programs described in Program Descriptions 101B27.100, PS-01 and PS-03 will fulfill the remaining programming requirements of this system. This program meets these requirements by:

- (a) A routine to check for the proper tape header label.
- (b) A routine to print inconvertible read errors.
- (c) A routine to check for and print wrong length record.
- (d) A routine to select records by parameter cards for printing.
- (e) A routine to select all records for printing.
- (f) A routine to print a pertinent field within the record with descriptive headings.
- (g) An interrupt and restart routine.
- (h) A routine to handle blocked records.

2.3 Timing. It is anticipated that this program will print at the rate of eleven records per minute. When the complete Active Duty Officer Master Magnetic Tape Record file is printed throughput time will be approximately three hours. Maximum response time for one parameter card will be approximately ten minutes. This time will, of course, vary with the physical location of the record on the tape.

2.4 Accuracy. Not applicable.

2.5 Flexibility. See System Specification 101B27.100, SS-01, para. 2.6.

3. Environment.

3.1 Software Environment.

IBM Autocoder Compiler with ZZERRR macro.

3.2 Program Interfaces. See System Specification 101B27.100, SS-01, paragraph 3.3.

3.3 Storage.

- (a) Core storage. Approximately 6,000 permanent positions.
- (b) Tape storage. One tape unit.

3.4 Security. The data in this system is unclassified but should be distributed only on a "need to know" basis.

3.5 Controls. Not applicable.

4. Design Data.

4.1 Terminal Procedures. This program is similar to the program described in Program Specification 101B27.100, PS-01 and the terminal procedures are the same.

4.2 Inputs. See System Specification 101B27.100, SS-01 inputs in paragraph 4.1.2.

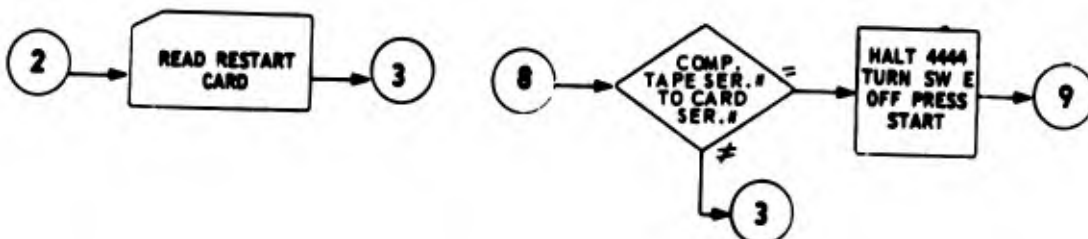
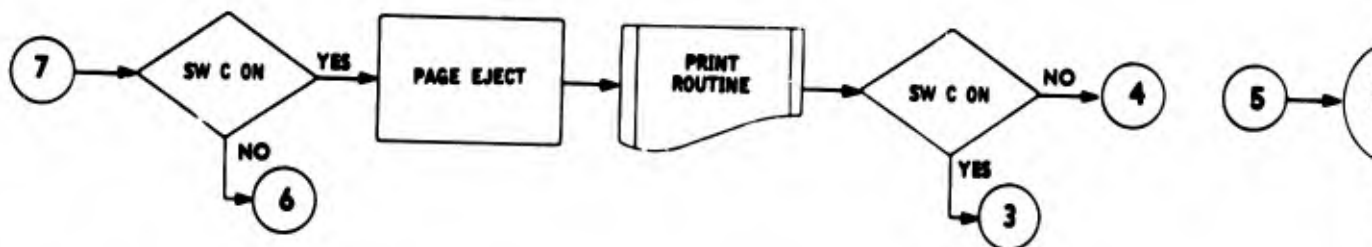
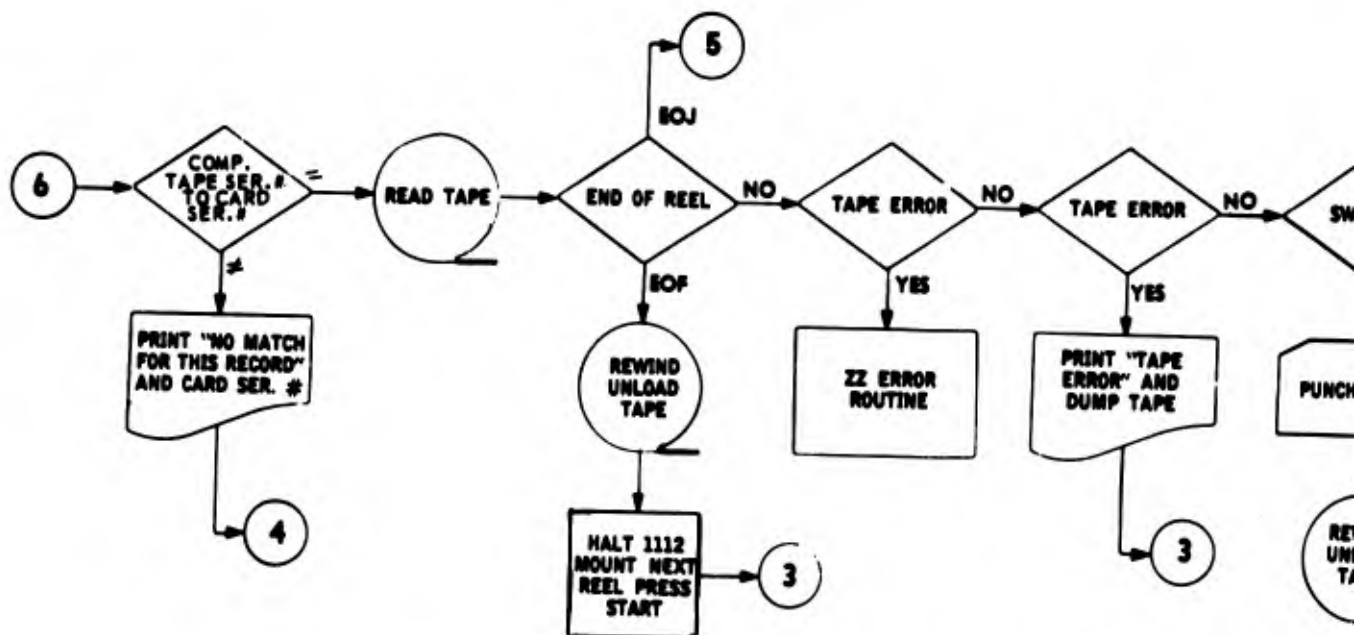
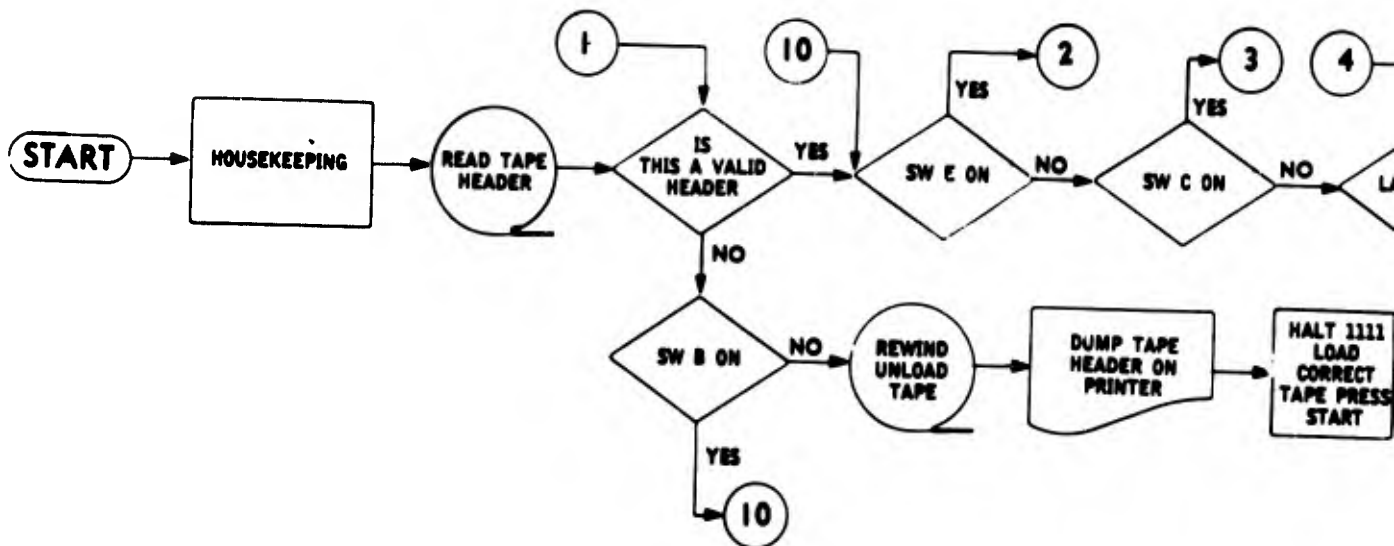
4.3 Outputs. See System Specification 101B27.100, SS-01 outputs in paragraph 4.1.2.

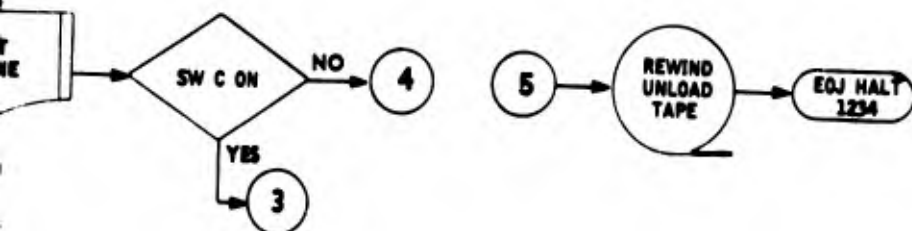
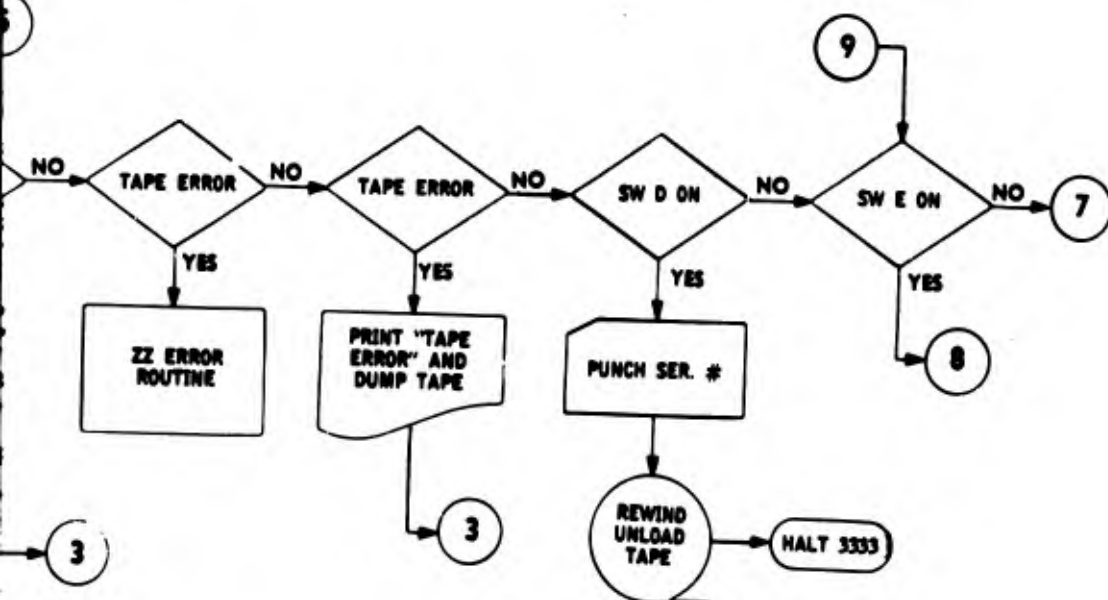
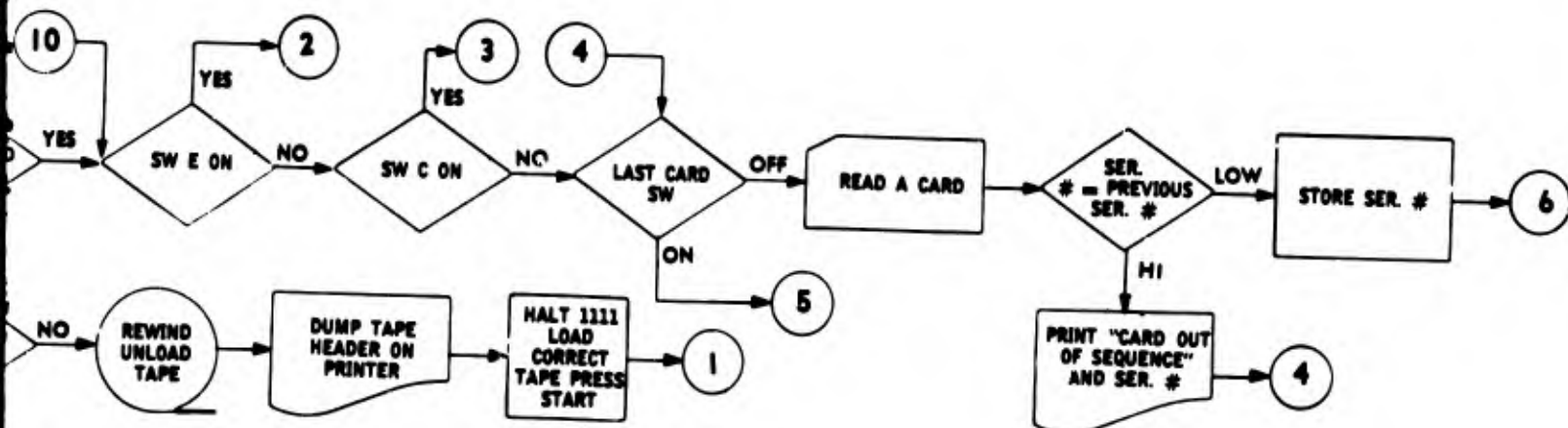
4.4 Data Environment.

- (a) Title. Active Duty Officer Master Magnetic Tape Record.
- (b) Description. This record contains officer history data including such items as schools, grades, rank, aircraft experience and activities.
- (c) Start of file. 80 character header record.
- (d) End of file. Tape mark, 80 character trailer label and tape mark.
- (e) Number of Records. A maximum of approximately 2,000.
- (f) Start of Record. First position is Gain/Loss indicator.
- (g) End of Record. Record mark.
- (h) Storage. Magnetic tape.

- (i) Normal order of file. File number sequence.
- (j) File Classification. Unclassified but handled on a "need to know" basis.
- (k) Retention Cycle. Minimum of two quarters.

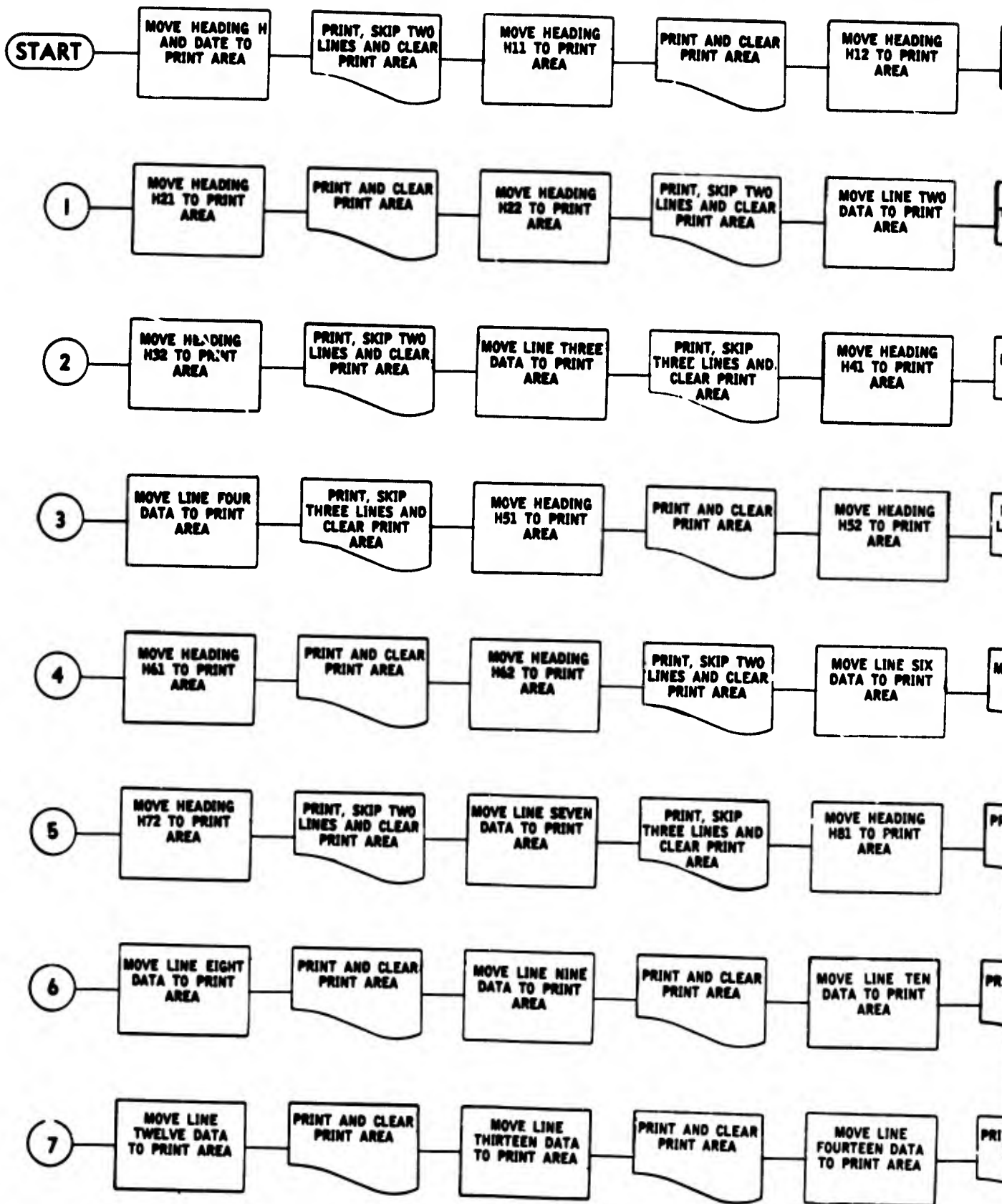
4.5 Logical Flow. See macro charts.

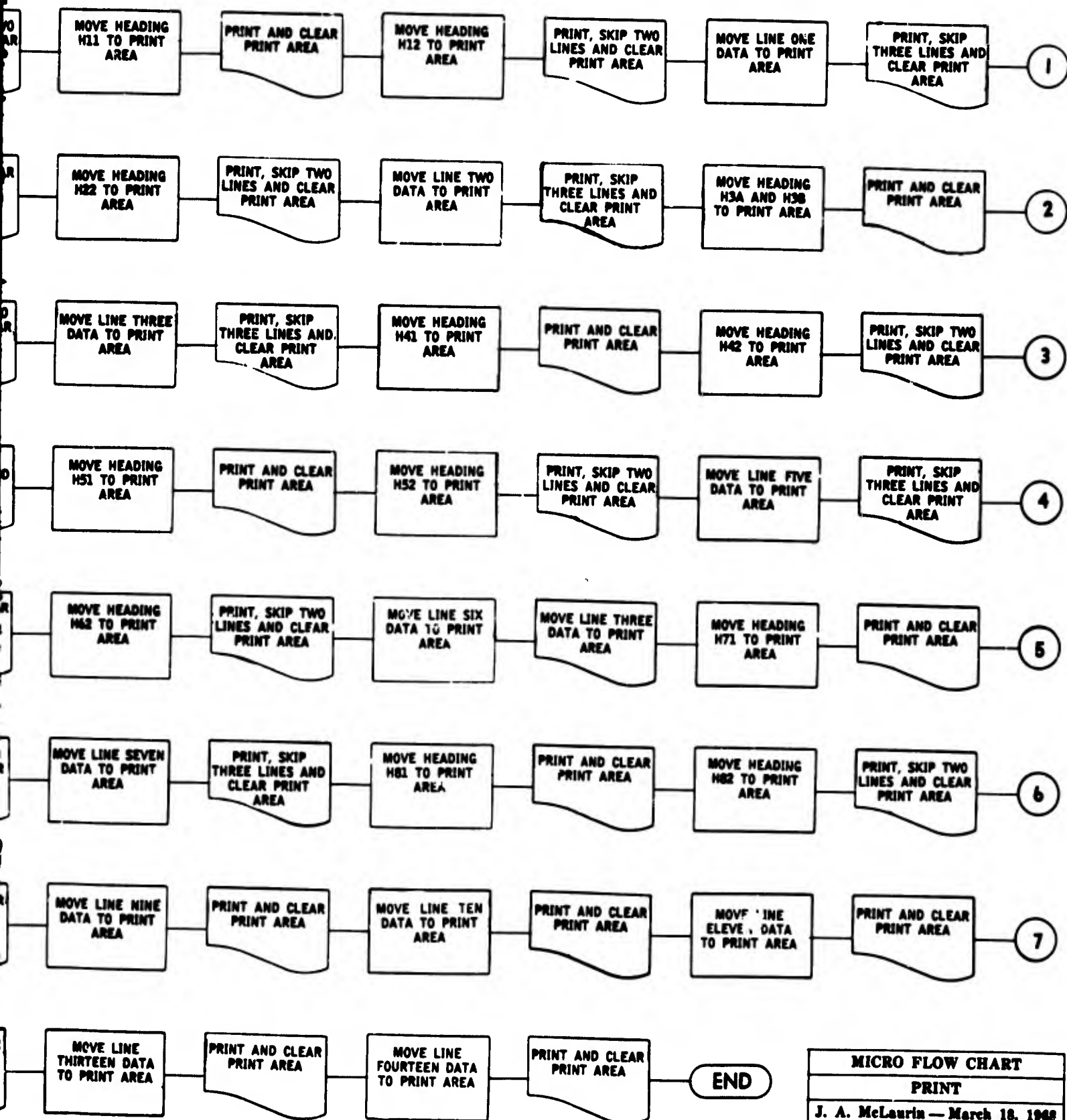




MACRO FLOW CHART
PRINT OFFICER TAPE
J. A. McLaurin — March 18, 1968
101B37.100 PS-02 1 of 1

B





MICRO FLOW CHART		
PRINT		
J. A. McLaurin — March 18, 1968		
101B27.100	PS-63	1 of 1

B

CLEAR STORAGE 1
CLEAR STORAGE 2
BOOTSTRAP

,008015,022026,030037,044,049,053053N000000N0000102
L068116,105106,110117B101/19R=071029C029056B026/800
,008015,022029,036040,047054,061068,072/061039

PRINT OFFICERS ACT DUTY TAPE

101B27.100

SEQ	PG	LIN	LABEL	OP	OPERANDS
101	1	01	000	JOB	PRINT OFFICERS ACT DUTY TAPE 101B27.100
102	1	02		CTL	5511
103	1	021		ORG	335
104	1	022		INCLD	ZZERRR
105	1	03		DCW	*PRES PRO CAT STAFF PER GRADE PRES
106	1	04	H11	DC	*SOURCE CODE LOSS CODE YR PRECEDENCE OVER
107	1	05	H	DCW	*OFFICER ACTIVE DUTY REC D
108	1	06		DCW	*FILE NAME GRADE
109	1	07		DC	*DESG CODE SEX GRADE PRES PER ABBR ABBR BRG
110	1	08	H12	DC	* BUPERS DOD GR NUMBER FOUR
111	1	09		DCW	*DATE DATE DATE PAY ENTRY ACTIVE
112	1	10	H21	DC	* CLASS SER RETIR PROF
113	1	11		DCW	*CIT RACE GAIN RANK BIRTH BASE DATE
114	1	12		DC	*DATE BASE DATE YEAR DATE YEAR SERVICE WAR
115	1	13	H22	DC	* ENSIGN LTJG LIEUTENANT
116	1	14	H3A	DCW	*PRE MIL SERVICE MARP
117	1	15	H3B	DCW	*PLC ASSIGN ACCT ORD PRESENT
118	1	16		DCW	*LCDR COMMANDER CAPTAIN FLAG BRAN YR M
119	1	17		DC	*K CODE BUPERS ACT ACTIVITY TITLE CODE CODE
120	1	18	H32	DC	*E STAT BILLET PRIMARY DUTIES
121	1	19		DCW	*COLLATERAL FUN BILLET TRAIN QUAL CONUS
122	1	20		DC	*PENDENTS O/S DEP PUBLIC ORDER FAC DETACH A
123	1	21	H41	DC	* DETAIL CURRENT LOSS
124	1	22		DCW	*DUTIES AREA CODE DUTIES DATE DEPARTURE
125	1	23		DC	*SEC O/S DATE AR QTR NUMBER CODE DATE CODE
126	1	24	H42	DC	*ODE DUTY CODE DATE
127	1	25		DCW	*ROTA ROTA TOUR SECURITY ASSIG RES DE
128	1	26		DC	*RS SPECIAL DESIGNATION
129	1	27	H51	DC	*-E D U C A T I O N-----*
130	2	01		DCW	*DATE PRO DATE INV AGY DATE RESTR EXT RE
131	2	02		DC	* CODE SUB QUAL CODE SUBSPECIALTY SCHOOL
132	2	03	H52	DC	*YR SPON LEVEL MAJ SPEC SCHOOL
133	2	04		DCW	*-----EDUCATION-----*-----LANGUAGE
134	2	05		DC	*-----*-----SERV ICE
135	2	06	H61	DC	* H O O L S-----*
136	2	07		DCW	*MO YR SPON LEVEL MAJ SPEC LANG CODE TEST LANG
137	2	08		DC	* TEST MORE SCH COMP WKS SCH COMP WKS SCH COM
138	2	09	H62	DC	*KS SCH COMP WKS SCH COMP WKS
139	2	13		DCW	*CODE CODE STAT TRAIN EXP AI
140	2	14		DC	*R QUAL AIR HOURS HOUR HOUR HOUR LAN
141	2	15	H72	DC	*MT GR RATE TYPE DATE
142	2	151		DCW	*QUALIFICATIONS
143	2	16		DC	*AIRCRAFT MODEL EXPERIENCE *-----P A S T
144	2	17	H81	DC	*T Y S T A T I O N S-----*
145	2	171		DCW	*NOBC STATION MOS KEY
146	2	18		DC	*CRAFT HOURS CARR IND YR REPORT DETACH ACTIV
147	2	19	H82	DC	* ROTA PORT AREA MOS

1
2
3

PAGE 1

SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9
10	10	10	10	10	10
11	11	11	11	11	11
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23	23	23	23	23	23
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37	37	37	37	37	37
38	38	38	38	38	38
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71	71	71	71	71	71
72	72	72	72	72	72
73	73	73	73	73	73
74	74	74	74	74	74
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101B27.100-PS-02

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101B27.100-PS-

A

ANDS

AERO FLY		FLIGHT		HEAVIER		FLIGHT		LIGHT		TOTAL		SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
YR	JET	VH	PH	CARR	SER	INST	OPNAV	376									
												50	2106				68
												50	2156				70
												1	2157				70
												50	2207				72
												50	2257				74
												30	2287				75
												50	2337				77
												50	2387				79
												26	2413				79
												35	2448				80
												14	2462				81
												50	2512				83
												15	2527				83
												50	2577				85
												50	2627				87
												31	2658				88
												50	2708				90
												50	2758				92
												30	2788				93
												19	2807				94
												28	2835				95
												20	2855				96
												32	2887				97
												37	2924				98
												50	2974				100
												11	2985				100
												50	3095				102
												50	3085				104
												32	3117				105
													3118	4117			105
													3211		FIELD		105
													3129		SBFLD		
													3285		FIELD		105
													3309		FIELD		105
													3379		FIELD		106
													3449		FIELD		106
													3531		FIELD		106
													3606		FIELD		106
													3693		FIELD		106
													3732		FIELD		106
													3617		FIELD		107
													3627		FIELD		107
													3637		FIELD		107
													3647		FIELD		107
													3657		FIELD		107
													3667		FIELD		107
													3677		FIELD		108
													3749		FIELD		108
													3765		FIELD		108
													3781		FIELD		108

B

PRINT OFFICERS ACT DUTY TAPE

101827.100-P

SEQ	PG	LIN	LABEL	OP	OPERANDS
198	4	20	AM4		665,680
199	4	21	AM5		681,696
200	4	22	PD1		697,736
201	4	23	PD2		737,776
202	4	24	PD3		777,816
203	4	25	PD4		817,856
204	4	26	PD5		857,896
205	4	27	PD6		897,936
206	4	28	PD7		937,976
207	4	29	GRMK	DCW	' '
208	4	30		DCW	' '
209	5	01	START	B	HEAD
210	5	011		SW	1
211	5	012		BSS	RS,E
212	5	02		BSS	RDTP,C
213	5	03	READ	BLC	EOJ
214	5	04		R	
215	5	05		C	6,PRE=6
216	5	06		BH	MESS1
217	5	07		MLC	6,PRE
218	5	08	COMP	C	PRE,FILE
219	5	09		BH	MESS2
220	5	10		BL	RDTP
221	5	11	PRINT	CC	1
222	5	12		MLC	H,289
223	5	13		MLC	'D A T E',323
224	5	14		MLC	HDATE,332
225	5	15		CC	S
226	5	16		W	
227	5	17		CS	
228	5	18		CS	
229	5	19		MLC	H11,331
230	5	20		W	
231	5	21		CS	
232	5	22		CS	
233	5	23		MLC	H12,331
234	5	24		CC	S
235	5	25		W	
236	5	26		CS	
237	5	27		CS	
238	6	01		LCA	EW1,330
239	6	02		MCE	ONE,330
240	6	021		MZ	ONE,330
241	6	03		CC	T
242	6	04		W	
243	6	05		CS	
244	6	06		CS	
245	6	07		MLC	H21,288
246	6	08		W	
247	6	09		CS	

ANDS

680
696
736
776
816
856
896
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FILE

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T E', 323

E, 332

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SFK	CT	LOCN	INSTRUCTION	TYPE	CARD
		3797		FIELD	108
		3813		FIELD	108
		3853		FIELD	109
		3893		FIELD	109
		3933		FIELD	109
		3973		FIELD	109
		4013		FIELD	109
		4053		FIELD	109
		4093		FIELD	110
	1	4118			110
	1	4119			110
	4	4120	B 95Z		110
	4	4124	; 001		110
	5	4128	B U2T E		110
	5	4133	B #7X C		110
	5	4138	B T7A A		111
	1	4143	1		111
	7	4144	C 006 W3Z		111
	5	4151	B 91Y U		111
	7	4156	M 006 W3Z		111
	7	4163	C W3Z A29		111
	5	4170	B 93W U		111
	5	4175	B #7X T		112
	2	4180	F 1		112
	7	4182	M 474 289		112
	7	4189	M W4W 323		112
	7	4196	M X0Z 332		112
	2	4203	F S		112
	1	4205	2		112
	1	4206	/		113
	1	4207	/		113
	7	4208	M 426 331		113
	1	4215	2		113
	1	4216	/		113
	1	4217	/		113
	7	4218	M 605 331		113
	2	4225	F S		114
	1	4227	2		114
	1	4228	/		114
	1	4229	/		114
	7	4230	L K87 330		114
	7	4237	E B11 330		114
	7	4244	Y B11 330		114
	2	4251	F T		115
	1	4253	2		115
	1	4254	/		115
	1	4255	/		115
	7	4256	M 683 288		115
	1	4263	2		115
	1	4264	/		115

B

PRINT OFFICERS ACT DUTY TAPE

101B27.100-PS-02

SEQ	PG	LIN	LABEL	OP	OPBRANDS
248	6	10		CS	
249	6	11		MLC	H22,328
250	6	12		CC	S
251	6	13		W	
252	6	14		CS	
253	6	15		CS	
254	6	16		LCA	EW2,327
255	6	17		MCE	TWO,327
256	6	18		CC	T
257	6	19		W	
258	6	20		CS	
259	6	21		CS	
260	6	22		MLC	H3A,256
261	6	23		MLC	H3B,314
262	6	24		W	
263	6	25		CS	
264	6	26		CS	
265	7	01		MLC	H32,329
266	7	02		CC	S
267	7	03		W	
268	7	04		CS	
269	7	05		CS	
270	7	051		MLC	THREE,329
271	7	06		LCA	EW3,315
272	7	07		MCE	THREE-14,315
273	7	071		LCA	EW3A,235
274	7	072		MCE	THRA,235
275	7	08		CC	T
276	7	09		W	
277	7	10		CS	
278	7	11		CS	
279	7	12		MLC	H41,325
280	7	13		W	
281	7	14		CS	
282	7	15		CS	
283	7	16		MLC	H42,329
284	7	17		CC	S
285	7	18		W	
286	7	19		CS	
287	7	20		CS	
288	7	21		LCA	EW4,331
289	7	22		MCE	FOUR,331
290	7	23		CC	T
291	7	24		W	
292	7	25		CS	
293	7	26		CS	
294	8	01		MLC	H51,332
295	8	02		W	
296	8	03		CS	
297	8	04		CS	

SFX	CT	LOGN	INSTRUCTION	TYPE	CARD
1		4265	/		116
7		4266	M 811	328	116
2		4273	F S		116
1		4275	2		116
1		4276	/		116
1		4277	/		116
7		4278	L M13	327	116
7		4285	E 885	327	117
2		4292	F T		117
1		4294	2		117
1		4295	/		117
1		4296	/		117
7		4297	M 831	256	117
7		4304	M 860	314	117
1		4311	2		118
1		4312	/		118
1		4313	/		118
7		4314	M 989	329	118
2		4321	F S		118
1		4323	2		118
1		4324	/		118
1		4325	/		119
7		4326	M C79	329	119
7		4333	L N27	315	119
7		4340	E C65	315	119
7		4347	L M48	235	119
7		4354	E C09	235	119
2		4361	F T		119
1		4363	2		120
1		4364	/		120
1		4365	/		120
7		4366	M /12	325	120
1		4373	2		120
1		4374	/		120
1		4375	/		120
7		4376	M S37	329	121
2		4383	F S		121
1		4385	2		121
1		4386	/		121
1		4387	/		121
7		4388	L 058	331	121
7		4395	E 049	331	121
2		4402	F T		122
1		4404	2		122
1		4405	/		122
1		4406	/		122
7		4407	M T69	332	122
1		4414	2		122
1		4415	/		122
1		4416	/		123

B

SEQ	PG	LIN	LABEL	OP	OPERANDS
298	8	05		MLC	H52,329
299	8	06		CC	S
300	8	07		W	
301	8	08		CS	
302	8	09		CS	
303	8	10		LCA	EW5,332
304	8	11		MCE	FIVE,332
305	8	111		MZ	FIVE,332
306	8	12		CC	T
307	8	13		W	
308	8	14		CS	
309	8	15		CS	
310	8	16		MLC	H61,330
311	8	17		W	
312	8	18		CS	
313	8	19		CS	
314	8	20		MLC	H62,330
315	8	21		CC	S
316	8	22		W	
317	8	23		CS	
318	8	24		CS	
319	8	25		LCA	EW6,330
320	8	26		MCE	SIX,330
321	8	27		CC	T
322	8	28		W	
323	8	29		CS	
324	8	30		CS	
325	9	01		MLC	H71,301
326	9	02		W	
327	9	03		CS	
328	9	04		CS	
329	9	05		MLC	H72,300
330	9	06		CC	S
331	9	07		W	
332	9	08		CS	
333	9	09		CS	
334	9	091		LCA	EW7A,238
335	9	092		MCE	SEVA,238
336	9	10		LCA	EW7,300
337	9	11		MCE	SEVEN,300
338	9	12		CC	T
339	9	13		W	
340	9	14		CS	
341	9	15		CS	
342	9	16		MLC	H81,301
343	9	17		W	
344	9	18		CS	
345	9	19		CS	
346	9	20		MLC	H82,301
347	9	21		CC	S

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SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7	4417	M	U98	329	123
2	4424	F	S		123
1	4426	2			123
1	4427	/			123
1	4428	/			123
7	4429	L	A17	332	123
7	4436	E	E31	332	124
7	4443	Y	E31	332	124
2	4450	F	T		124
1	4452	2			124
1	4453	/			124
1	4454	/			124
7	4455	M	H28	330	124
1	4462	2			125
1	4463	/			125
1	4464	/			125
7	4465	M	X58	330	125
2	4472	F	S		125
1	4474	2			125
1	4475	/			125
1	44				126
7	44		P88	330	126
7	44		F06	330	126
2			T		126
1	4493	2			126
1	4494	/			126
1	4495	/			126
7	4496	M	J57	301	127
1	4503	2			127
1	4504	/			127
1	4505	/			127
7	4506	M	Y58	300	127
2	4513	F	S		127
1	4515	2			127
1	4516	/			128
1	4517	/			128
7	4518	L	R24	238	128
7	4525	E	F93	238	128
7	4532	L	R85	300	128
7	4539	E	G32	300	128
2	4546	F	T		128
1	4548	2			129
1	4549	/			129
1	4550	/			129
7	4551	M	Z55	301	129
1	4558	2			129
1	4559	/			129
1	4560	/			129
7	4561	M	-56	301	130
2	4568	F	S		130

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SEQ	PG	LIN	LABEL	OP	OPERANDS
348	9	22		W	
349	9	23		CS	
350	9	24		CS	
351	9	25		LCA	EWQ,219
352	9	26		MCE	Q1,219
353	9	261		MZ	Q1,219
354	9	27		LCA	EWAM,247
355	9	28		MCE	AM1,247
356	9	29		LCA	EWPD,301
357	9	30		MCE	PD1,301
358	10	01		W	
359	10	02		CS	
360	10	03		CS	
361	10	04		LCA	EWQ,219
362	10	05		MCE	Q2,219
363	10	051		MZ	Q2,219
364	10	06		LCA	EWAM,247
365	10	07		MCE	AM2,247
366	10	08		LCA	EWPD,301
367	10	09		MCE	PD2,301
368	10	10		W	
369	10	11		CS	
370	10	12		CS	
371	10	13		LCA	EWQ,219
372	10	14		MCE	Q3,219
373	10	141		MZ	Q3,219
374	10	15		LCA	EWAM,247
375	10	16		MCE	AM3,247
376	10	17		LCA	EWPD,301
377	10	18		MCE	PD3,301
378	10	19		W	
379	10	20		CS	
380	10	21		CS	
381	10	22		LCA	EWQ,219
382	10	23		MCE	Q4,219
383	10	231		MZ	Q4,219
384	10	24		LCA	EWAM,247
385	10	25		MCE	AM4,247
386	10	26		LCA	EWPD,301
387	10	27		MCE	PD4,301
388	10	28		W	
389	10	29		CS	
390	10	30		CS	
391	11	01		LCA	EWQ,219
392	11	02		MCE	Q5,219
393	11	021		MZ	Q5,219
394	11	03		LCA	EWAM,247
395	11	04		MCE	AM5,247
396	11	05		LCA	EWPD,301
397	11	06		MCE	PD5,301

A

OS

9

47

7

01

1

9

47

7

01

1

9

47

7

01

1

9

47

7

01

1

9

47

7

01

1

SFX	CT	LDGN	INSTRUCTION	TYPE	CARD
1		4570	2		130
1		4571	/		130
1		4572	/		130
7		4573	L Q07	219	130
7		4580	E F17	219	130
7		4587	Y F17	219	131
7		4594	L Q35	247	131
7		4601	E G49	247	131
7		4608	L Q87	301	131
7		4615	E H53	301	131
1		4622	2		131
1		4623	/		131
1		4624	/		132
7		4625	L Q07	219	132
7		4632	E F27	219	132
7		4639	Y F27	219	132
7		4646	L Q35	247	132
7		4653	E G65	247	132
7		4660	L Q67	301	133
7		4667	E H93	301	133
1		4674	2		133
1		4675	/		133
1		4676	/		133
7		4677	L Q07	219	133
7		4684	E F37	219	133
7		4691	Y F37	219	134
7		4698	L Q35	247	134
7		4705	E G81	247	134
7		4712	L Q87	301	134
7		4719	E 133	301	134
1		4726	2		134
1		4727	/		134
1		4728	/		135
7		4729	L Q07	219	135
7		4736	E F47	219	135
7		4743	Y F47	219	135
7		4750	L Q35	247	135
7		4757	E G97	247	135
7		4764	L Q87	301	136
7		4771	E 173	301	136
1		4778	2		136
1		4779	/		136
1		4780	/		136
7		4781	L Q07	219	136
7		4788	E F57	219	136
7		4795	Y F57	219	137
7		4802	L Q35	247	137
7		4809	E H13	247	137
7		4816	L Q87	301	137
7		4823	E 01T	301	137

B

PRINT OFFICERS ACT DUTY TAPE

101B27.100-PS-02

SEQ	PG	LIN	LABEL	OP	OPBRANDS
398	11	07		W	
399	11	08		CS	
400	11	09		CS	
401	11	10		LCA	EWQ,219
402	11	11		MCE	Q6,219
403	11	111		MZ	Q6,219
404	11	12		LCA	EWPD,301
405	11	13		MCE	PD6,301
406	11	14		W	
407	11	15		CS	
408	11	16		CS	
409	11	17		LCA	EWQ,219
410	11	18		MCE	Q7,219
411	11	181		MZ	Q7,219
412	11	19		LCA	EWPD,301
413	11	20		MCE	PD7,301
414	11	21		W	
415	11	22		CS	
416	11	23		CS	
417	11	24		CSS	RDTP,C
418	11	25		B	READ
419	12	01	MESS1	MLC	'CARD OUT OF SEQUENCE',220
420	12	02		MLC	80,301
421	12	03		B	PRMESS
422	12	04	MESS2	MLC	'NO MATCH FOR THIS CARD',222
423	12	05		MLC	80,303
424	12	06	PRMESS	CC	1
425	12	07		W	
426	12	08		CS	
427	12	09		CS	
428	12	10		B	READ
429	12	11	HEAD	SBR	HDEX+3
430	12	12		RT	1,TAPE
431	12	121		CW	TAPE+6
432	12	13	CMPTP	C	TAPE+9,'E697XX W1 '
433	12	14		BU	INV
434	12	15		C	TAPE+35,REEL
435	12	16		BU	INV
436	12	17		MA	'001',REEL
437	12	171		MLC	TAPE+17,HDATE=8
438	12	172		SW	TAPE+6
439	12	18		B	HDEX
440	12	181	INV	SW	TAPE+6
441	12	19		BSS	HDEX,B
442	12	20		RWU	1
443	12	21		MLC	'INVALID HEADER',214
444	12	211		MLC	TAPE+17,HDATE
445	12	22		MLC	TAPE+79,300
446	12	222		MLC	
447	12	23		CC	1

SFX CT LOCN INSTRUCTION TYPE CARD

1	4890	2		137
1	4891	/		137
1	4892	/		138
7	4893	L Q07	219	138
7	4894	E F67	219	138
7	4897	Y F67	219	138
7	4854	L Q87	301	138
7	4861	E 05T	301	138
1	4868	2		138
1	4869	/		139
1	4870	/		139
7	4871	L Q07	219	139
7	4878	E F77	219	139
7	4885	Y F77	219	139
7	4892	L Q87	301	139
7	4899	E 09T	301	139
1	4906	2		140
1	4907	/		140
1	4908	/		140
5	4909	E #7X	C	140
4	4914	B 13Y		140
7	4918	M W6W	220	140
7	4925	M 080	301	140
4	4932	B 95#		141
7	4936	M W8Y	222	141
7	4943	M 080	303	141
2	4950	F 1		141
1	4952	2		141
1	4953	/		141
1	4954	/		141
4	4955	B 13Y		142
4	4959	H #7W		142
8	4963	M (U1	A18 R	142
4	4971	I A24		142
7	4975	C A27	W9Y	142
5	4982	B #2/	/	142
7	4987	C A53	T9W	142
5	4994	B #2/	/	143
7	4999	# X0/	T9W	143
7	5006	M A35	X0Z	143
4	5013	I A24		143
4	5017	B #7T		143
4	5021	, A24		143
5	5025	B #7T	B	143
5	5030	U (U1	U	144
7	5035	M X2T	214	144
7	5042	M A35	X0Z	144
7	5049	M A97	300	144
1	5056	M		144
2	5057	F 1		144

OF SEQUENCE',220

FOR THIS CARD',222

597XX W1

EEL

DATE=8

HEADER',214

DATE

0

B

SEQ	PG	LIN	LABEL	OP	OPERANDS
448	12	24		W	
449	12	25		CS	
450	12	26		CS	
451	12	27		H	1111,1111 BAD HEADER
452	12	28		B	HEAD+4
453	12	29	HDEX	B	0
454	13	01	RDTP	RT	1,TAPE
455	13	011		NOP	0
456	13	02		BEF	EOR
457	13	03		BER	ZZERRR
458	13	04		BER	ERR
459	13	05		BCE	WLR,GRMK,
460	13	06		MLC	' ',GRMK
461	13	061		BSS	INR,D
462	13	062	RSSW	BSS	RSS,E
463	13	07		BSS	PRINT,C
464	13	08		B	COMP
465	13	09	ERR	CC	1
466	13	10		MLC	'TAPE ERROR',210
467	13	11		W	
468	13	12	SW	SW	201
469	13	13		MLC	TAPE+99,300
470	13	14		MLC	
471	13	15		MLC	
472	13	16		W	
473	13	17		MLC	TAPE+199,300
474	13	18		MLC	
475	13	181		MLC	
476	13	19		W	
477	13	20		MLC	TAPE+299,300
478	13	21		MLC	
479	13	22		W	
480	13	23		MLC	TAPE+399,300
481	13	24		MLC	
482	13	25		W	
483	13	26		MLC	TAPE+499,300
484	13	27		MLC	
485	13	28		MLC	
486	13	29		W	
487	14	01		MLC	TAPE+599,300
488	14	02		CHAIN	7
489				MLC	
490				MLC	
491				MLC	
492				MLC	
493				MLC	
494				MLC	
495				MLC	
496	14	03		W	
497	14	04		MLC	TAPE+699,300

S

SFX CT LOCN INSTRUCTION TYPE CARD

11 BAD HEADER

ERROR, 210

300

300

300

300

300

300

300

1	5059	2		144
1	5060	/		145
1	5061	/		145
7	5062	J	/11 /11	145
4	5069	B	96T	145
4	5073	B	000	145
8	5077	M	(U1 A18 R	145
4	5085	N	000	145
5	5089	B	T3+ K	146
5	5094	B	U5V L	146
5	5099	B	/3Y L	146
8	5104	B	S6U 11Y	146
7	5112	M	X2U 11Y	146
5	5119	B	T9X D	146
5	5124	B	U2Y E	147
5	5129	B	18+ C	147
4	5134	B	16T	147
2	5138	F	1	147
7	5140	M	X3U 210	147
1	5147	2		147
4	5148	4	201	147
7	5152	M	B17 300	148
1	5159	M		148
1	5160	M		148
1	5161	2		148
7	5162	M	C17 300	148
1	5169	M		148
1	5170	M		148
1	5171	2		149
7	5172	M	D17 300	149
1	5179	M		149
1	5180	2		149
7	5181	M	E17 300	149
1	5188	M		149
1	5189	2		149
7	5190	M	F17 300	150
1	5197	M		150
1	5198	M		150
1	5199	2		150
7	5200	M	G17 300	150
1	5207	M	MACRO	150
1	5208	M	GEN	150
1	5209	M	GEN	151
1	5210	M	GEN	151
1	5211	M	GEN	151
1	5212	M	GEN	151
1	5213	M	GEN	151
1	5214	2		151
7	5215	M	H17 300	151

B

SEQ	PG	LIN	LABEL	OP	OPERANDS
498	14	05		CHAIN	6
499				MLC	
500				MLC	
501				MLC	
502				MLC	
503				MLC	
504				MLC	
505	14	06		W	
506	14	07		MLC	TAPE+799,300
507	14	08		MLC	
508	14	09		MLC	
509	14	10		W	
510	14	11		MLC	TAPE+899,300
511	14	12		MLC	
512	14	13		MLC	
513	14	14		W	
514	14	15		MLC	TAPE+999,300
515	14	16		MLC	
516	14	17		W	
517	14	18		CS	
518	14	19		CS	
519	14	20		B	RDTP
520	14	21	WLR	CC	1
521	14	22		MLC	'WRONG LENGTH RECORD',219
522	14	23		W	
523	14	24	BCE	BCE	BLANK,TAPE+X2,
524	14	25		A	*-6,X2
525	14	26		B	BCE
526	15	01	BLANK	MLC	' ',TAPE+X2
527	15	02		A	*-6,X2
528	15	03		C	X2,'999'
529	15	04		BU	BLANK
530	15	041		MLC	'000',X2
531	15	05		B	SW
532	15	06	EOR	RT	1,TAPE
533	15	07		C	TAPE+2,'EOJ'
534	15	08		BE	EOJ
535	15	09		RWU	1
536	15	10		H	1112,1112
537	15	11		B	HEAD
538	15	12		B	RDTP
539	15	13	EOJ	RWU	1
540	15	14		CC	1
541	15	15		MLC	'END OF JOB',225
542	15	16		W	
543	15	17		CC	1
544	15	18		H	1234,1234
545	15	19	X2	EQU	94
546	15	20	94	DCW	000
547	15	21	REEL	DCW	'001'

A

SFX CT EOCN INSTRUCTION TYPE CARD

MACRO

1	5222	M	GEN	152
1	5223	M	GEN	152
1	5224	M	GEN	152
1	5225	M	GEN	152
1	5226	M	GEN	152
1	5227	M	GEN	152
1	5228	2		152
7	5229	M	I.17 300	153
1	5236	M		153
1	5237	M		153
1	5238	2		153
7	5239	M	01X 300	153
1	5246	M		153
1	5247	M		153
1	5248	2		154
7	5249	M	11X 300	154
1	5256	M		154
1	5257	2		154
1	5258	/		154
1	5259	/		154
4	5260	B	*7X	154
2	5264	F	1	155
7	5266	M	X5T 219	155
1	5273	2		155
8	5274	B	S9T AJ8	155
7	5282	A	S8S 094	155
4	5289	B	S7U	155
7	5293	M	X2U AJ8	155
7	5300	A	T0* 094	156
7	5307	C	094 X5W	156
5	5314	B	S9T /	156
7	5319	M	X6Z 094	156
4	5326	B	/4Y	156
8	5330	M	(U1 A18 R	156
7	5338	C	A20 X6S	157
5	5345	B	T7* S	157
5	5350	U	(U1 U	157
7	5365	J	/12 /12	157
4	5362	B	96Z	157
4	5366	B	*7X	157
5	5370	U	(U1 U	157
2	5375	F	1	158
7	5377	M	X7S 225	158
1	5384	2		158
2	5385	F	1	158
7	5387	J	S34 S34	158
	0094			
3	0094			159
3	5396			160

B

SEQ	PG	LIN	LABEL	OP	OPERANDS
548	15	22	INR	MLC	FILE,106
549	15	23		P	
550	15	24		CS	180
551	15	25		P	
552	15	26		P	
553	15	27		RWU	1
554	15	28		H	3333,3333
555	15	29	RS	R	
556	15	30		B	RDTP
557	15	31	RSS	C	FILE,6
558	15	32		BE	HALT
559	15	33		B	RDTP
560	15	34	HALT	H	4444,4444 TURN SW E OFF
561	15	35		B	RSSW
562			ZZERRR	SBR	ZZESAX+6
563				SBR	ZZEDUM,0
564				SBR	ZZESX1+6,0+X1
565			ZZESAX	SBR	89,0
566				SBR	ZZERX1+3
567				LCA	15985+X1,ZZEREA
568				MN	15981+X1,++4
569				BSP	0
570			ZZESX1	SBR	89,0
571			ZZEREA	DCW	=8
572				BER	++5
573			ZZERX1	B	0
574				BCB	ZZERX1,ZZECNT,8
575				MN	ZZEREA-4,++4
576			ZZEBSP	BSP	0
577				A	ZZBONE,ZZECNT
578				C	ZZECNT,ZZESIX
579				BH	ZZEREA-7
580				BCE	++5,ZZECNT,8
581				B	ZZEBSP
582				MN	ZZEREA-4,ZZEBS1+3
583				MN	ZZEREA-4,ZZERTT+3
584			ZZERTT	RT	0,ZZEDUM
585				A	ZZBONE,ZZERDT
586				BCE	++5,ZZERDT,3
587				B	ZZERTT
588			ZZEBS1	BSP	0
589				B	ZZEREA-7
590			ZZBONE	DCW	'1'
591			ZZESIX	DCW	'6'
592			ZZERDT	DCW	=1
593			ZZECNT	DCW	=1
594			ZZEDUM	DC	=1
595				DCW	' '
	215		PRE	DCW	=06
	223				'D A T E'

A

DS

06

333

444 TURN SW E OFF

+6

+0

+6,0+X1

+3

X1,ZZEREA

X1,*+4

ZZECNT,8

+4,*+4

ZZECNT

ZZESIX

+7

ECNT,8

+4,ZZEBS1+3

+4,ZZERTT+3

UM

ZZERDT

ERDT,3

7

E'

SFK	CT	LOCN	INSTRUCTION	TYPE	CARD
7	5397	N	A29 10W		160
1	5404	4			160
4	5405	/	180		160
1	5409	4			160
1	5410	4			160
5	5411	U	IUI U		160
7	5416	J	C33 C33		161
1	5423	1			161
4	5424	B	*7X		161
7	5428	C	A29 006		161
5	5435	B	U4U S		161
4	5440	B	*7X		161
7	5444	J	44U 44U		161
4	5451	B	/2U		162
4	5455	H	U7Z	GEN	162
7	5459	H	M3S 000	GEN	162
7	5466	H	V0Z 0+0	GEN	162
7	5473	H	089 000	GEN	162
4	5480	H	V2W	GEN	162
7	5484	L	IYE V1X	GEN	163
7	5491	D	IYA V0/	GEN	163
5	5498	U	IU0 B	GEN	163
7	5503	H	089 000	GEN	163
8	5517			GEN	163
5	5518	B	V2K L	GEN	163
4	5523	B	000	GEN	164
8	5527	B	V2T W3/ 8	GEN	164
7	5535	D	V1T V4V	GEN	164
5	5542	U	IU0 B	GEN	164
7	5547	A	M2Y W3/	GEN	164
7	5554	C	M3/ W2Z	GEN	164
5	5561	B	V1# U	GEN	165
8	5566	B	V7Y W3/ 8	GEN	165
4	5574	B	V4S	GEN	165
7	5578	D	V1T W2S	GEN	165
7	5585	D	V1T V9V	GEN	165
8	5592	M	IU0 W3S R	GEN	165
7	5600	A	M2Y W3#	GEN	166
8	5607	B	W1Z W3# 3	GEN	166
4	5615	B	V9S	GEN	166
5	5619	U	IU0 B	GEN	166
4	5624	B	V1#	GEN	166
1	5628			GEN	166
1	5629			GEN	166
1	5630			GEN	167
1	5631			GEN	167
1	5632			GEN	167
1	5633			GEN	167
6	5639			AREA	167
7	5646			LIT	167



PRINT OFFICERS ACT DUTY TAPE

101B27.

SEQ	PG	LIN	LABEL	OP	OPERANDS
		419			'CARD OUT OF SEQUENCE'
		422			'NO MATCH FOR THIS CARD'
		432			'E697XX W1 '
					'001'
		437	HDATE		'08
		443			'INVALID HEADER'
					' '
		466			'TAPE ERROR'
		521			'WRONG LENGTH RECORD'
					'999'
					'000'
					'EOJ'
		541			'END OF JOB'
596	15	22		END	START

NDS

OUT OF SEQUENCE'
ATCH FOR THIS CARD'
X W1 '

ID HEADER'

ERROR'
LENGTH RECORD'

F JOB'

SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
	20	5686		LIT	167
	22	5688		LIT	168
	10	5698		LIT	168
	3	5701		LIT	168
	8	5709		AREA	169
	14	5723		LIT	169
	1	5724		LIT	169
	10	5734		LIT	169
	19	5753		LIT	170
	3	5756		LIT	170
	3	5759		LIT	170
	3	5762		LIT	170
	10	5772		LIT	170
			/ 12# 080		171

B

Program Specification
101B27.100
PS-03

1. General.

1.1 Purpose of Program Specification. The objective for writing a Program Specification for Project 101B27.100, PS-03 is to describe the program design to permit program production by the program coder with sufficient detailed information so that the design ultimately may be translated into instructions.

1.2 Project Reference. The outputs of the Officer Active Duty Master Record Print Procedure, Project 101B27.100, PS-03 will be analyzed by the Scientific Advisory Teams at COMHUKFORLANT, COMFAIRWINGSLANT and COMOCEANSYSLANT to determine what future application may be made of these data.

1.3 Applicable Documents.

- (a) Functional Description 101B27.100, FD-01.
- (b) Data Requirements Document 101B27.100, RD-01.
- (c) System Specification 101B27.100, SS-01.
- (d) Program Specification 101B27.100, PS-01.
- (e) Program Specification 101B27.100, PS-02.
- (f) BUPERS ltr Pers-N103-PA of 13 Nov 1967. Manual of Active Duty Officer Automated Record (Preliminary Revision to NAVPERS 15, 921A).
- (g) COMASWFORLANT OPORDER 71-(YR).

2. Scope.

2.1 Program Description. See System Specification 101B27.100, SS-01, paragraph 4.1.3.

2.2 Program Function. This program will fulfill the requirement to produce a detailed list of the new Active Duty Master Magnetic Tape Record file. Programs described in Program Descriptions 101B27.100, PS-01 and PS-02 will fulfill the remaining programming requirements of this system. This program meets these requirements by:

- (a) A routine to check for the proper tape header label.
- (b) A routine to print incorruptable read errors.
- (c) A routine to check for and print wrong length record.
- (d) A routine to select records by parameter cards for printing.
- (e) A routine to select all records for printing.
- (f) A routine to print a pertinent field within the record with descriptive headings.
- (g) An interrupt and restart routine.
- (h) A routine to handle blocked records.

2.3 Timing. It is anticipated that this program will print at the rate of eleven records per minute. When the complete Active Duty Officer Master Magnetic Tape Record file is printed throughput time will be approximately three hours. Maximum response time for one parameter card will be approximately ten minutes. This time will, of course, vary with the physical location of the record on the tape.

2.4 Accuracy. Not applicable.

2.5 Flexibility. See System Specification 101B27.100, SS-01, paragraph 2.6.

3. Environment.

3.1 Software Environment.

IBM Autocoder Compiler with ZZERRR macro.

3.2 Program Interfaces. See System Specification 101B27.100, SS-01, paragraph 3.3.

3.3 Storage.

- (a) Core storage. Approximately 6,000 permanent positions.
- (b) Tape storage. One tape unit.

3.5 Controls. Not applicable.

4. Design Data.

4.1 Terminal Procedures. This program is similar to the program described in Program Specification 101B27.100, SS-01 inputs in paragraph 4.1.3.

4.2 Inputs. See System Specification 101B27.100, SS-01 outputs in paragraph 4.1.3.

4.3 Outputs. See System Specification 101B27.100, SS-01 outputs in paragraph 4.1.3.

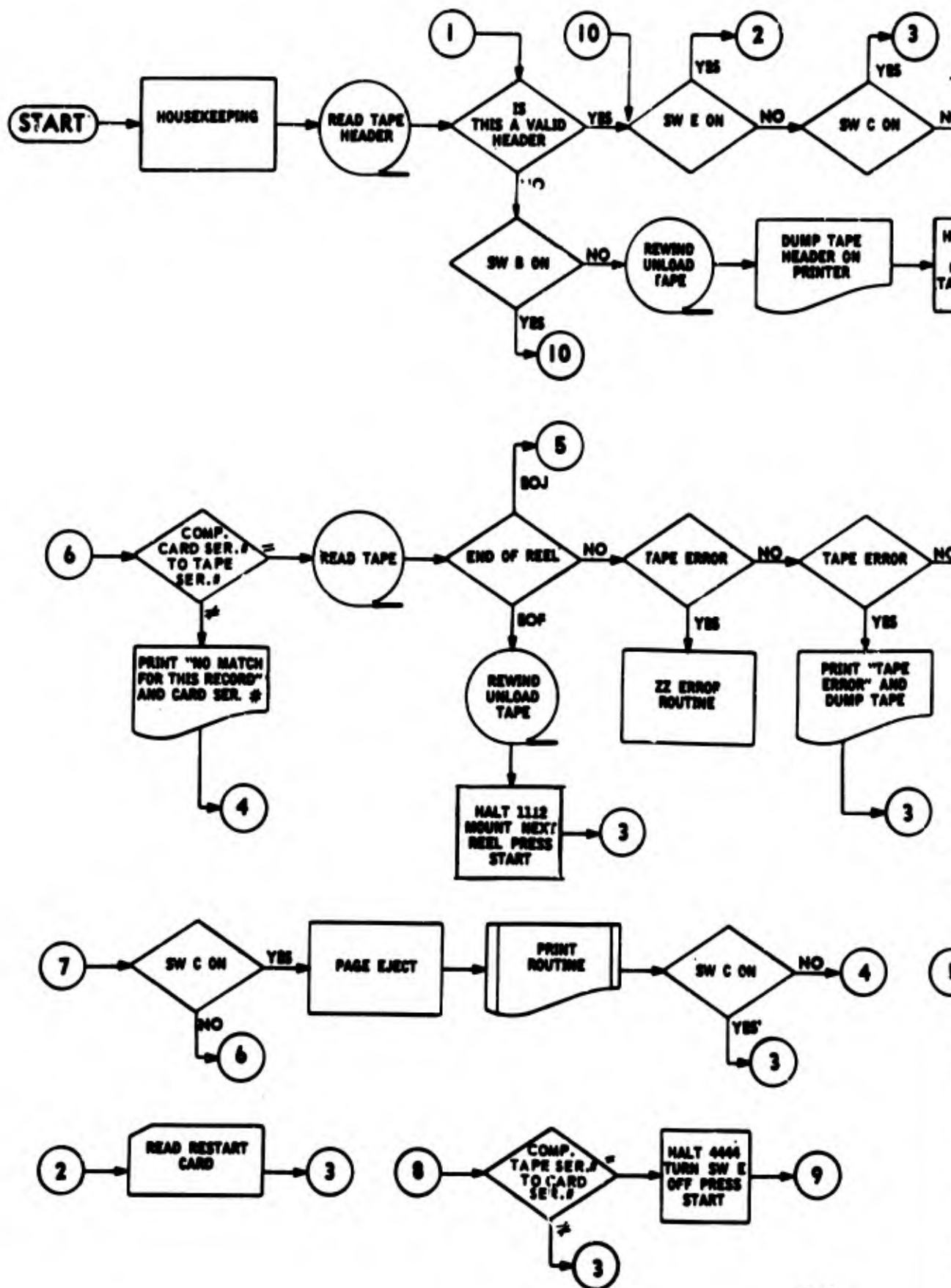
4.4. Data Environment.

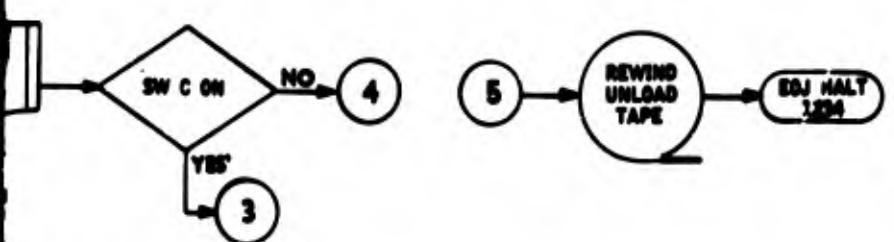
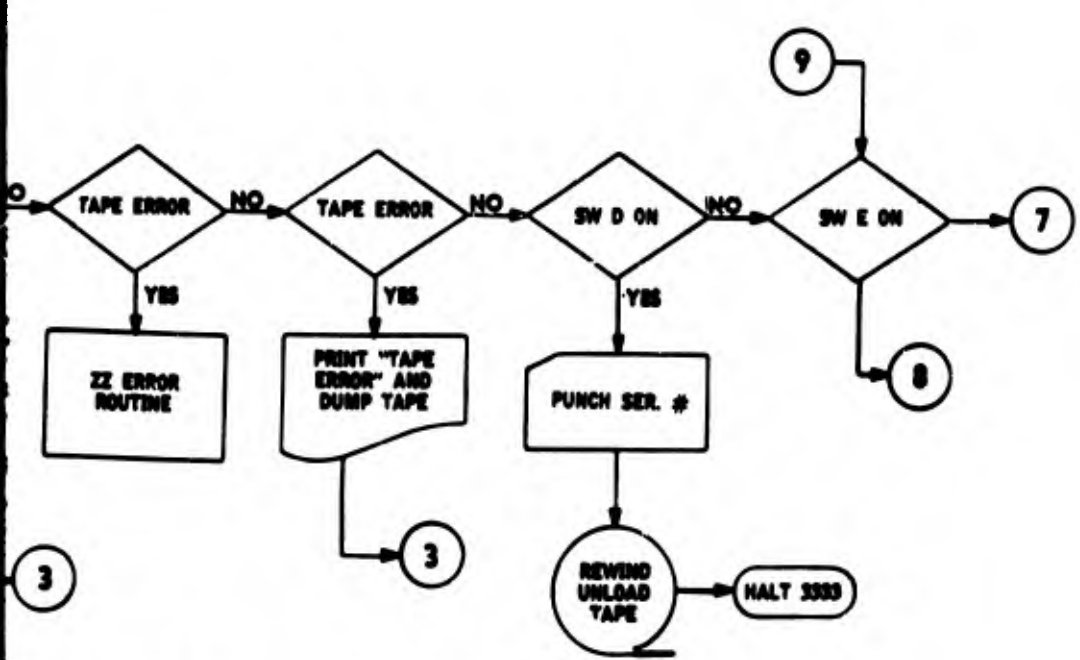
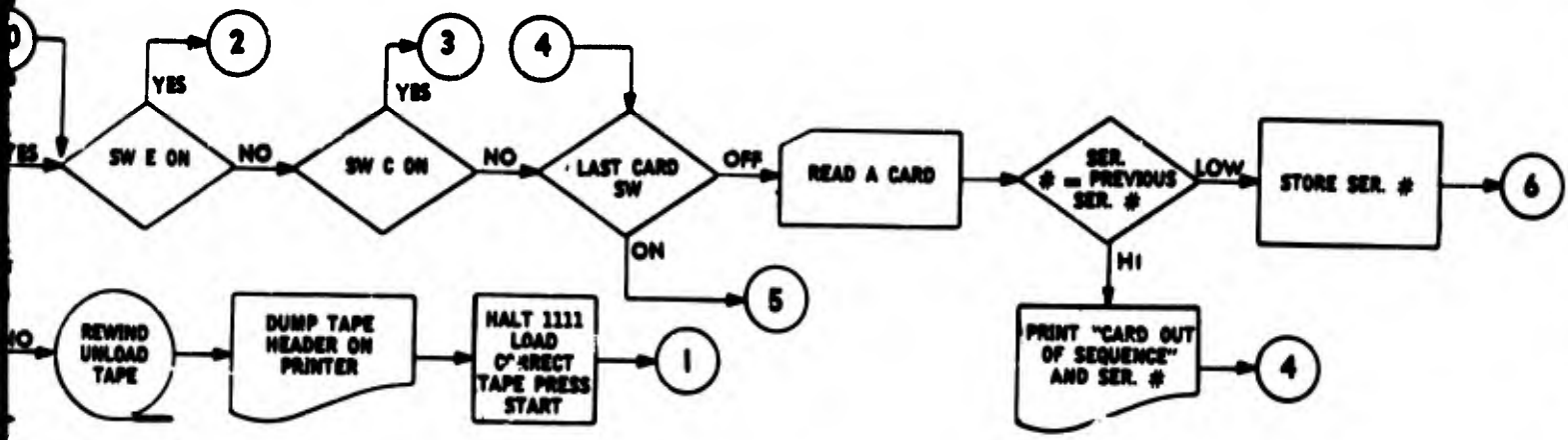
- (a) Title. Active Duty Officer Master Magnetic Tape Record.
- (b) Description. This record contains officer history data including such items as schools, grades, rank, aircraft experience and activities.
- (c) Start of file. 80 character header record.
- (d) End of file. Tape mark, 80 character trailer label and tape mark.
- (e) Number of records. A maximum of approximately 2,000.
- (f) Start of record. First position is Gain/Loss indicator.
- (g) End of record. Record mark.
- (h) Storage. Magnetic tape.
- (i) Normal order of file. File number sequence.

(j) File classification. Unclassified but handled on a "need to know" basis.

(k) Retention cycle. Minimum of two quarters.

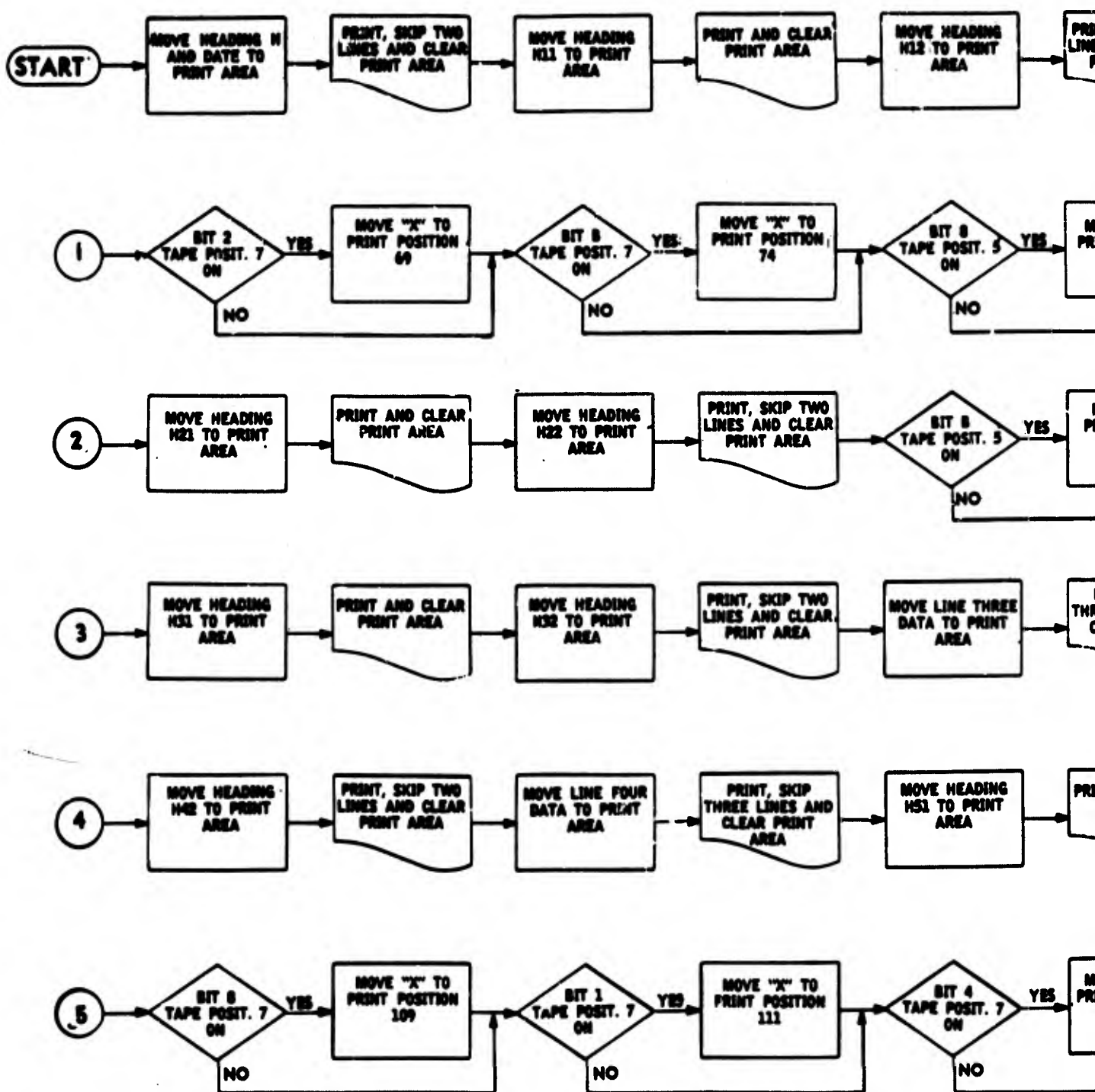
4.5 Logical Flow. See macro charts.



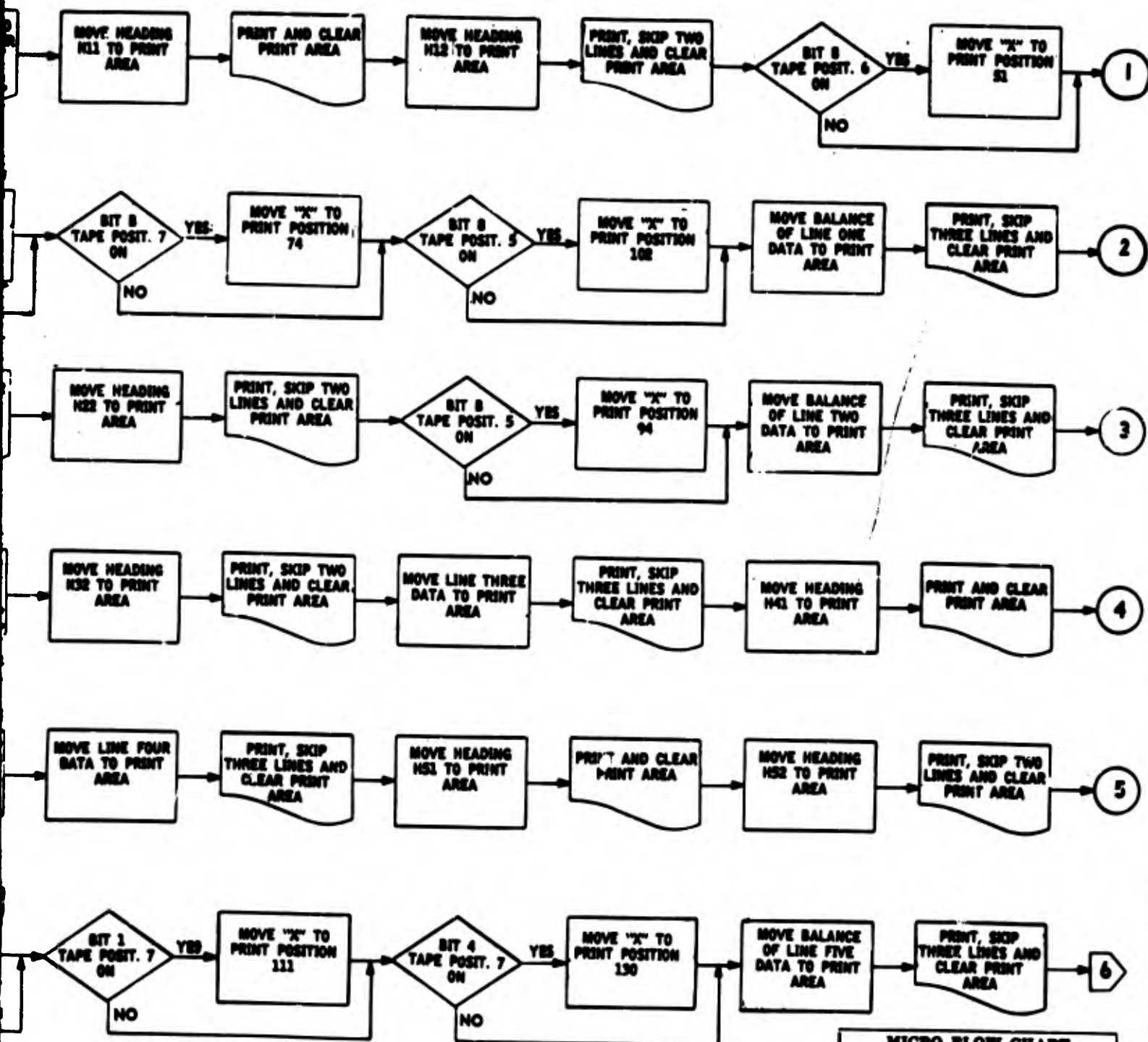


MACRO FLOW CHART		
PRINT OFFICE TAPE		
J. A. McLaurin — March 18, 1968		
101B27.100	PS-00	1 of 1

B

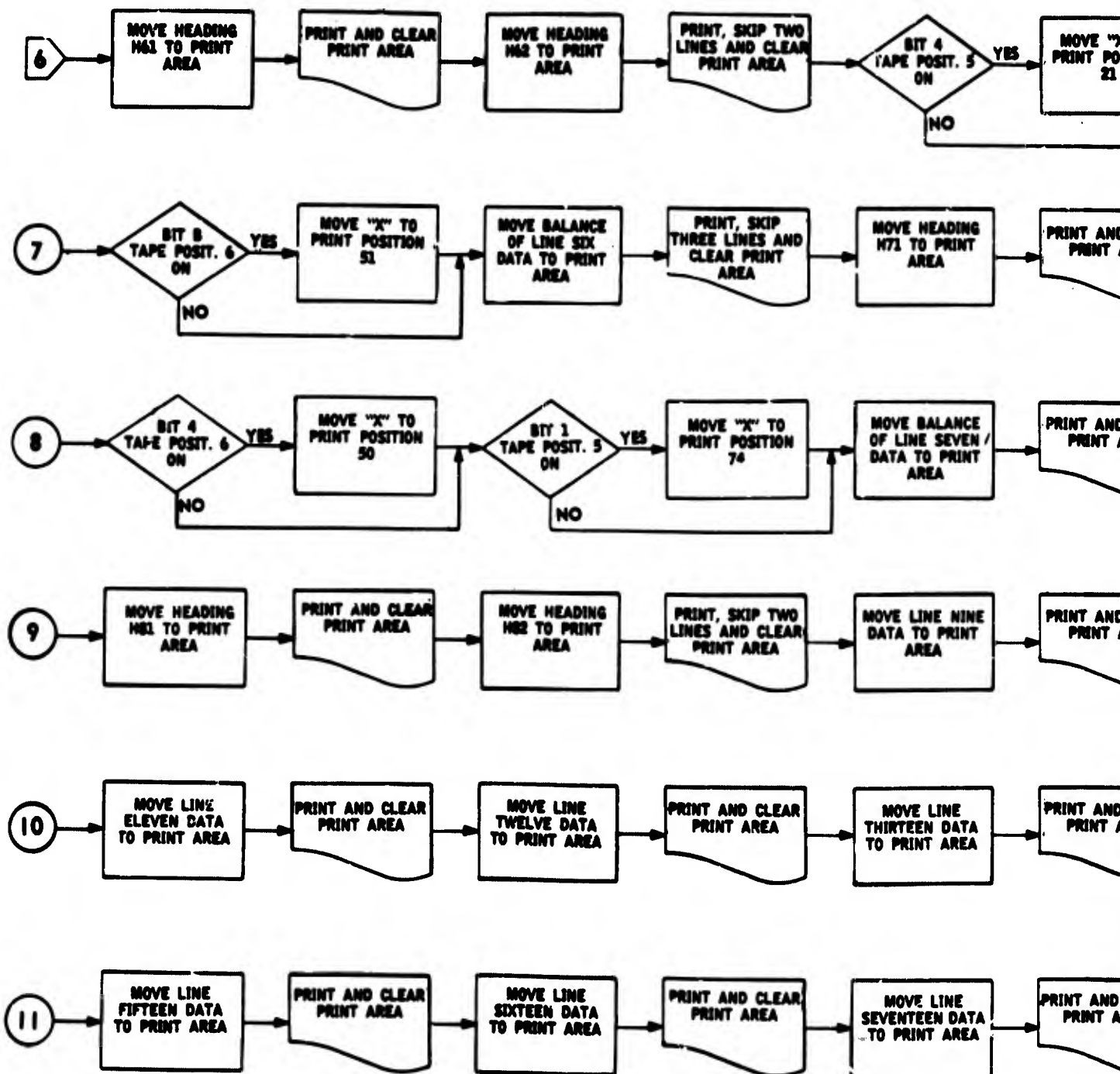


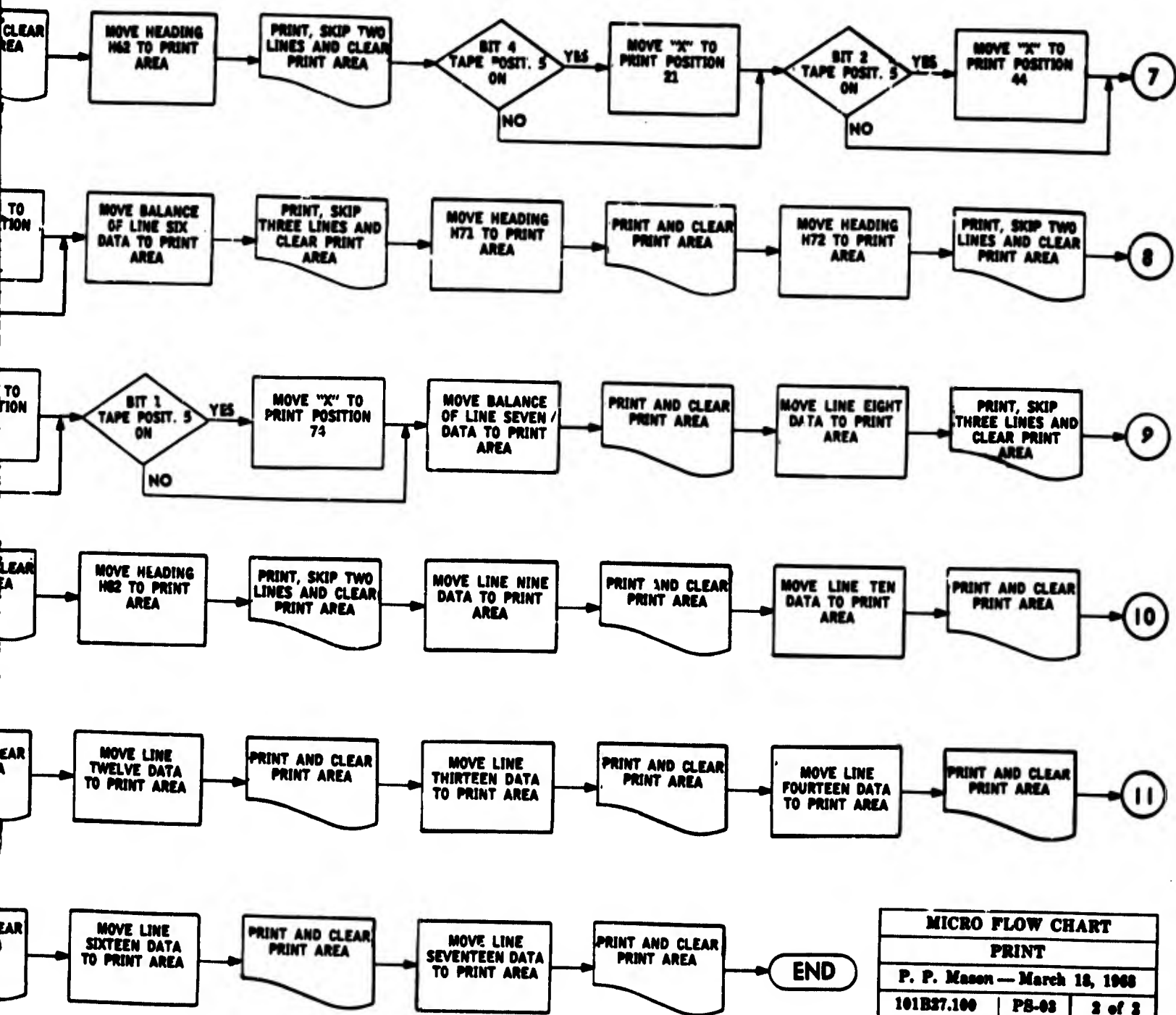
A



MICRO FLOW CHART		
PRINT		
P. P. Mason — March 18, 1968		
101B37.100	PS-43	1 of 2

B





B

CLEAR STORAGE 1
CLEAR STORAGE 2
BOOTSTRAP

.008015,022026,030037,044,049,053053N000000N00001026
L068116,105106,110117B101/19R=071029C029056B026/B001
.008015,022029,036040,047054,061068,072/061039

PRINT OFFICERS ACTIVE DUTY REV 101827.100-

SEQ	PG	LIN	LABEL	OP	OPERANDS
101	1	01	000	JOB	PRINT OFFICERS ACTIVE DUTY REV 101827.100-
102	1	02		CTL	5511
103	1	03		ORG	335
104	1	04		INCLD	ZZERR
105	1	05	H	DCW	'O F F I C E R A C T I V E D U T Y R E C O
106	1	06		DCW	'DATE OF NAME FILE DEPENDENTS O/S DEP PUBL
107	1	07	H11	DC	'SECURITY* DECO ORDER SER'
108	1	08		DCW	' FILE SSN NAME
109	1	09		DC	'EX RACE BIRTH CHG CHG PRI SEC O/S DATE
110	1	10	H12	DC	'QTRS T INV DATE CODE NUMBER GRP'
111	1	11		DCW	'PRES PROM *DESIG-* PERM SPOT PROM SOURCE
112	1	12		DC	' *LOSS CODE* YR SERV *PRECEDENCE NUMBER* OVER
113	1	13	H21	DC	'ATE OF GAIN--* *-DATE OF RANK--*'
114	1	14		DCW	'GRADE STAT CUR PEND GRADE GRADE I ORG CUR
115	1	15		DC	' BUPERS DOD GRP DATE ACTIVE INACTIVE FOUR
116	1	16	H22	DC	'RENT INITIAL PRESENT SPOT PRO'
117	1	17		DCW	'PAY ENTRY ACT DUTY ACT COMM FIRST *-----
118	1	18		DC	'-----P R O M O T I O N A L H I S T O R Y-----
119	1	19	H31	DC	'-----* *PREV MIL SERV* CL RET'
120	1	20		DCW	'BASE DATE BASE DATE BASE DATE COMM WARRANT
121	1	21		DC	'NS LTJG LT LCDR CDR CA
122	1	22	H32	DC	' FLAG BRAN YR MO RANK YR YR'
123	1	23		DCW	' PROF *---BUPERS UNIT IDENT CODE----* PAMI
124	1	24		DC	'AIL ACCTG GAIN ORDER PHASED PRESENT *---PRI
125	1	25	H41	DC	'---* *-COLLATERAL-* TRAIN QUAL'
126	1	26		DCW	'SERVICE CURRENT PREV PENDING ADDU C P
127	1	27		DC	' P C P LOSS C A ACTIVITY BILLET DUT
128	1	28	H42	DC	' DUTIES DUTIES DAT2'
129	2	01		DCW	'FUNC *BILLET SEQ CODE* *-----REPORT DATE-----*
130	2	02		DC	'STIMATED LOSS CODE-* *ROTA DATE* *ROTA PROJ* *
131	2	03	H51	DC	' DATE* RESTR DETAILER ASSIG MORE'
132	2	04		DCW	'C P CUR PEND ADDU CUR DUTY PEND ADDU
133	2	05		DC	' DATE PEND DATE CUR PEND CUR PEND
134	2	06	H52	DC	' PEND C P REMARKS PEND ADDU'
135	2	07		DCW	'DETACH AERO DESIG *-----COMBAT DUTY-----* FLIGH
136	2	08		DC	'UBMARINE *CONST SERV* *PILOT/NFO TOT FLIGHT H
137	2	09	H61	DC	'CARR INSTRUMENT *--OPNAV 3760-*'
138	2	10		DCW	' PEND CUR PEND CUR MOS TOUR DATE A/C STUDE
139	2	11		DC	'UAL DATE IND YR TOTAL 5-YR JET VH P
140	2	12	H62	DC	'LAND RATING DATE TYPE'
141	2	13		DCW	'DOD APTITUDE *-----E D U C A T I O N-----
142	2	14		DC	'-* *-L A N G U A G E S--* DESIG CHANGE PILO
143	2	15	H71	DC	'SIG NFO PILOT FLYING STATUS'
144	2	16		DCW	' M V T COLLEGE MO YR SPON LEV MAJ SPE
145	2	17		DC	'RE LANG CODE TEST YR MORE DATE DESIG HTA
146	2	18	H72	DC	'A DESIG CAT CURRENT PEND'
147	2	19		DCW	' SERVICE SCHOOLS *--QUALIFICATIONS-

26,030037,044,049,053053N0000000N00001026
06,110117B101/19R=071029C029056B026/B001/0991,001/00111710+
29,036040,047054,061068,072/061039 ,J010011040

1
2
3

OFFICERS ACTIVE DUTY REV 101B27.100-PS-03

00003

PAGE 1

OS

SFX CT LOCN INSTRUCTION TYPE CARD

OFFICERS ACTIVE DUTY REV 101B27.100-PS-03

0335

MACRO

I C E R A C T I V E D U T Y R E C O R D I
F NAME FILE DEPENDENTS O/S DEP PUBLIC *S
Y* DECO ORDER SER
SSN NAME S
E BIRTH CHG CHG PRI SEC O/S DATE AR
T INV DATE CODE NUMBER GRP
PROM *DESIG-* PERM SPOT PROM SOURCE RES
CODE* YR SERV *PRECEDENCE NUMBER* OVER *-D
GAIN--* *-DATE OF RANK--*
STAT CUR PEND GRADE GRADE I ORG CUR B/U
S DOD GRP DATE ACTIVE INACTIVE FOUR CUR
INITIAL PRESENT SPOT PRO
TRY ACT DUTY ACT COMM FIRST *-----
R O M O T I O N A L H I S T O R Y-----
--* *PREV MIL SERV* CL RET
ATE BASE DATE BASE DATE COMM WARRANT E
LTJG LT LCDR CDR CAPT
G BRAN YR MO RANK YR YR
---BUPERS UNIT IDENT CODE--- PAMI DET
CCTG GAIN ORDER PHASED PRESENT *---PRIMARY
COLLATERAL-* TRAIN QUAL
E CURRENT PREV PENDING ADDU C P C
C P LOSS C A ACTIVITY BILLET DUTIES
DUTIES DUTIES DATE
BILLET SEQ CODE* *---REPORT DATE-----* *-E
ED LOSS CODE-* *ROTA DATE* *ROTA PROJ* *TOUR
RESTR DETAILER ASSIG MORE
CUR PEND ADDU CUR DUTY PEND ADDU CUR
PEND DATE CUR PEND CUR PEND CUR
C P REMARKS PEND ADDU
AERO DESIG *---COMBAT DUTY---* FLIGHT S
IE *CONST SERV* *PILOT/NFO TOT FLIGHT HR*
STRUMENT *--OPNAV 3760--*
CUR PEND CUR MOS TOUR DATE A/C STUDENT Q
E IND YR TOTAL 5-YR JET VH PC
RATING DATE TYPE
ITUDE *-----E D U C A T I O N-----
A N G U A G E S--* DESIG CHANGE PILOT DE
FO PILOT FLYING STATUS
V T COLLEGE MO YR SPON LEV MAJ SPEC MO
G CODE TEST YR MORE DATE DESIG HTA LT
SIG CAT CURRENT PEND
SERVICE SCHOOLS *--QUALIFICATIONS--*

48 0382
50 0432
24 0456
50 0506
50 0556
32 0588
50 0638
50 0688
32 0720
50 0770
50 0820
32 0852
50 0902
50 0952
32 0984
50 1034
50 1084
31 1115
50 1165
50 1215
32 1247
50 1297
50 1347
32 1379
50 1429
50 1479
32 1511
50 1561
50 1611
32 1643
50 1693
50 1743
32 1775
50 1825
50 1875
32 1907
50 1957
50 2007
32 2039
50 2089
50 2139
32 2171
50 2221

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B

SEQ	PG	LIN	LABEL	OP	OPERANDS
148	2	20		DC	'AIRCRAFT MODEL EXPERIENCE *-----P A S T D
149	2	21	H81	DC	' S T A T I O N S-----* SPECIAL'
150	2	22		DCW	'SUBSPECIALTY SCH COMP WKS NOBC STATION MO
151	2	23		DC	'MODEL HRS CARR DESIG YR REPORT DETACH
152	2	24	H82	DC	'TY TYPE HOME PT MOS DESIGN'
153	3	01	TAPE	DA	1X1121
154	3	02	YN1		5,6
155	3	03	YN2		7,7
156	3	04	PAMI		9,9
157	3	05	COMMOS		21,22
158	3	06	BLOUP		23,23
159	3	07	DECOR		24,24
160	3	08	GLI		25,25
161	3	09	FILE		26,31
162	3	10	NAME		32,62
163	3	11	GRADE		63,63
164	3	12	PROM		64,67
165	3	13	PRMGR		68,68
166	3	14	SPGRD		69,69
167	3	15	SPOTI		70,70
168	3	16	PRECN		71,79
169	3	17	YRGRP		80,82
170	3	18	DESIG		83,86
171	3	19	OSC		87,89
172	3	20	CSC		90,92
173	3	21	RACE		93,93
174	3	22	DOB		94,99
175	3	23	PCAT		100,100
176	3	24	SGC		101,101
177	3	25	PAD		102,102
178	3	26	FSC		103,103
179	3	27	LOSS		104,106
180	3	28	ELC		107,107
181	3	29	ELD		108,113
182	3	30	BUIC		114,120
183	4	01	DTRPT		121,126
184	4	02	PRD		127,130
185	4	03	TOUR		131,134
186	4	04	FAC		135,135
187	4	05	COG		136,137
188	4	06	ORDST		138,138
189	4	07	RP		139,140
190	4	08	CAT		141,143
191	4	09	DEPPR		144,144
192	4	10	DEPSC		145,145
193	4	12	SECBC		146,146
194	4	13	SSN		147,155
195	4	14	PERD		168,173
196	4	15	ADBD		174,179
197	4	16	ACSD		180,185

MOS					SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
CRAFT MODEL EXPERIENCE *-----P A S T D U T Y					50		2271			76
A T I O N S-----* SPECIAL					32		2303			77
SPECIALTY SCH COMP WKS NOBC STATION MOS KEY					50		2353			79
HRS CARR DESIG YR REPORT DETACH ACTIVI					50		2403			01
TYPE HOME PT MOS DESIG					31		2434			02
							2435	3555		02
							2440		FIELD	02
							2441		FIELD	02
							2443		FIELD	02
							2456		FIELD	03
							2457		FIELD	03
							2458		FIELD	03
							2459		FIELD	03
							2465		FIELD	03
							2496		FIELD	03
							2497		FIELD	04
							2501		FIELD	04
							2502		FIELD	04
							2503		FIELD	04
							2504		FIELD	04
							2513		FIELD	04
							2516		FIELD	05
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							2536		FIELD	06
							2537		FIELD	06
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							2554		FIELD	07
							2560		FIELD	07
							2564		FIELD	07
							2568		FIELD	07
							2569		FIELD	07
							2571		FIELD	08
							2572		FIELD	08
							2574		FIELD	08
							2577		FIELD	08
							2578		FIELD	08
							2579		FIELD	08
							2580		FIELD	09
							2589		FIELD	09
							2607		FIELD	09
							2613		FIELD	09
							2619		FIELD	09

B

SEQ	PG	LIN	LABEL	OP	OPERANDS
198	4	17	IGAIN		186,191
199	4	18	RGAIN		192,197
200	4	19	COMM		198,201
201	4	20	DOR		202,207
202	4	21	SPDOR		208,213
203	4	22	SECDT		214,219
204	4	23	YFER		220,221
205	4	24	PCN		222,227
206	4	25	COMBTR		245,245
207	4	26	DTRMK		258,261
208	4	27	COMBAT		262,264
209	4	28	COMAC		265,265
210	4	29	HTA		266,269
211	4	30	LTA		270,273
212	5	01	NFODT		274,277
213	5	02	SUBOT		278,281
214	5	03	CLYR		282,283
215	5	04	SRVDT		284,285
216	5	05	PSD		286,291
217	5	06	DDS		292,292
218	5	07	DOSDT		293,296
219	5	08	DUTR		297,301
220	5	09	DUTRQ		302,305
221	5	10	BILDT		306,309
222	5	11	PRIDU		310,323
223	5	12	BSC		324,328
224	5	13	COLDU		329,342
225	5	14	LOSSD		343,345
226	5	15	BUICL		346,352
227	5	16	ACTVY		353,360
228	5	17	PMSBR		361,361
229	5	18	PMSFR		365,366
230	5	19	PMSMO		367,368
231	5	20	PMSHR		369,372
232	5	21	PH		373,420
233	5	22	DESCH1		421,428
234	5	23	DESCH2		429,436
235	5	24	DORE		437,443
236	5	25	CNSRVI		452,452
237	5	26	CONSRV		453,454
238	5	27	PREC I		455,462
239	5	28	ED1		463,482
240	5	29	ED2		483,502
241	5	30	LANG1		503,506
242	6	01	LNGP1		507,507
243	6	02	LNGPR1		508,508
244	6	03	LNGDT1		512,513
245	6	04	LANG2		514,517
246	6	05	LNGP2		518,518
247	6	06	LNGPR2		519,519

A

INDS

	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
91			2625		FIELD	89
97			2631		FIELD	90
01			2635		FIELD	90
07			2641		FIELD	90
13			2647		FIELD	90
19			2653		FIELD	90
21			2655		FIELD	90
27			2661		FIELD	91
45			2679		FIELD	91
61			2695		FIELD	91
64			2698		FIELD	91
65			2699		FIELD	91
69			2703		FIELD	91
73			2707		FIELD	92
77			2711		FIELD	92
81			2715		FIELD	92
83			2717		FIELD	92
85			2719		FIELD	92
91			2725		FIELD	92
92			2726		FIELD	93
96			2730		FIELD	93
01			2735		FIELD	93
05			2739		FIELD	93
09			2743		FIELD	93
23			2757		FIELD	93
28			2762		FIELD	94
42			2776		FIELD	94
55			2779		FIELD	94
62			2786		FIELD	94
70			2794		FIELD	94
71			2795		FIELD	94
76			2800		FIELD	95
78			2802		FIELD	95
82			2806		FIELD	95
88			2854		FIELD	95
96			2862		FIELD	95
99			2870		FIELD	95
03			2877		FIELD	96
07			2886		FIELD	96
14			2888		FIELD	96
22			2896		FIELD	96
22			2916		FIELD	96
26			2936		FIELD	96
27			2940		FIELD	97
28			2941		FIELD	97
33			2942		FIELD	97
37			2947		FIELD	97
38			2951		FIELD	97
39			2952		FIELD	97
			2953		FIELD	98

B

SEQ	PG	LIN	LABEL	OP	OPERANDS
248	6	07	LNGDT2		523,524
249	6	08	SUBSP1		525,529
250	6	09	SUBSP2		530,534
251	6	10	D3760		535,538
252	6	11	T3760		539,539
253	6	12	PLTHR		540,544
254	6	13	P15YR		545,548
255	6	14	JTHRS		549,552
256	6	15	VHHR5		553,556
257	6	16	PCTOT		557,560
258	6	17	CLTOT		561,563
259	6	18	INST		567,567
260	6	19	ACMOD1		570,585
261	6	20	ACMOD2		586,601
262	6	21	ACMOD3		602,617
263	6	22	ACMOD4		618,633
264	6	23	ACMOD5		634,649
265	6	24	SPDES1		650,652
266	6	25	SPDES2		653,655
267	6	26	SPDES3		656,658
268	6	27	SPDES4		659,661
269	6	28	SPDES5		662,664
270	6	29	SPDES6		665,667
271	6	30	SPDES7		668,670
272	7	01	SPDES8		671,673
273	7	02	SPDES9		674,676
274	7	03	SCH1		677,685
275	7	04	SCH2		686,694
276	7	05	SCH3		695,703
277	7	06	SCH4		704,712
278	7	07	SCH5		713,721
279	7	08	QL1		722,731
280	7	09	QL2		732,741
281	7	10	QL3		742,751
282	7	11	QL4		752,761
283	7	12	QL5		762,771
284	7	13	QL6		772,781
285	7	14	QL7		782,791
286	7	15	PDS1		792,824
287	7	16	PDS2		825,857
288	7	17	PDS3		858,890
289	7	18	PDS4		891,923
290	7	19	PDS5		924,956
291	7	20	PDS6		957,989
292	7	21	PDS7		990,1022
293	7	22	PDS8		1023,1055
294	7	23	CATP		1056,1056
295	7	24	COGP		1057,1058
296	7	25	PAOP		1059,1059
297	7	26	FSCP		1060,1060

DS

SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
		2958		FIELD	98
		2963		FIELD	98
		2968		FIELD	98
		2972		FIELD	98
		2973		FIELD	98
		2978		FIELD	99
		2982		FIELD	99
		2986		FIELD	99
		2990		FIELD	99
		2994		FIELD	99
		2997		FIELD	99
		3001		FIELD	100
		3019		FIELD	100
		3035		FIELD	100
		3051		FIELD	100
		3067		FIELD	100
		3083		FIELD	100
		3086		FIELD	101
		3089		FIELD	101
		3092		FIELD	101
		3095		FIELD	101
		3098		FIELD	101
		3101		FIELD	101
		3104		FIELD	102
		3107		FIELD	102
		3110		FIELD	102
		3119		FIELD	102
		3128		FIELD	102
		3137		FIELD	102
		3146		FIELD	103
		3155		FIELD	103
		3165		FIELD	103
		3175		FIELD	103
		3185		FIELD	103
		3195		FIELD	103
		3205		FIELD	104
		3215		FIELD	104
		3225		FIELD	104
		3258		FIELD	104
		3291		FIELD	104
		3324		FIELD	104
		3357		FIELD	105
		3390		FIELD	105
		3423		FIELD	105
		3456		FIELD	105
		3489		FIELD	105
		3490		FIELD	105
		3492		FIELD	106
		3493		FIELD	106
		3494		FIELD	106

B

SEQ	PG	LIN	LABEL	OP	OPERANDS
298	7	27	FACP		1061,1061
299	7	28	RPP		1062,1063
300	7	29	ELCP		1064,1064
301	7	30	ELDP		1065,1068
302	8	01	PAMIP		1069,1069
303	8	02	PRDP		1070,1073
304	8	03	TOURP		1074,1077
305	8	04	EDAP		1078,1081
306	8	05	EDD		1082,1085
307	8	06	BUICP		1086,1092
308	8	07	BSCP		1093,1097
309	8	08	TYPEAP		1098,1098
310	8	09	DESIGP		1099,1101
311	8	10	ORSTA		1102,1102
312	8	11	BUICA		1103,1109
313	8	12	BSCA		1110,1114
314	8	13	DRPTA		1115,1120
315	8	14	GRMK	DCW	' '
316	8	15		DCW	' '
317	8	16	EWDT1	DCW	' / / 0'
318	8	17	EWDT2	DCW	' / 0'
319	8	18	EWDT3	DCW	' / 0'
320	8	19		DCW	' / / + / / + / / + / / +
321	8	20	EWPH	DC	' / + / / + / / '
322	8	21	EWDORE	DCW	' +++ ++ '
323	8	22	EWED	DCW	' + + ++ +++ ++ ++ '
324	8	23	EWAC	DCW	' ++ ++ ++ ++ '
325	8	24	EWSCH	DCW	' ++ / ++ '
326	8	25	EWQL	DCW	' +++ +++ ++ '
327	8	26	EWPS	DCW	' / ++ / + ++ ++ ++ ++ '
328	8	27	EWDES	DCW	' / ++ ' ++ ++ ++ ++ ++ '
329	8	28	TPH	DCW	=1
330	8	29		DC	=49
331	8	30		DC	=31
332	9	01	START	B	HEAD
333	9	02		SW	1
334	9	03		BSS	RS,E
335	9	04		BSS	RDTP,C
336	9	05	READ	BLC	EOJ
337	9	06		R	
338	9	07		C	6,PRE=6
339	9	08		BH	MESS1
340	9	09		MLC	6,PRE
341	9	10	COMP	C	PRE,FILE
342	9	11		BH	MESS2
343	9	12		BL	RDTP
344	10	01	PRINT	CC	1
345	10	02		MLC	H,289
346	10	03		MLC	'D A T E',323
347	10	04		MLC	HDATE=8,332

SFX CT LOCN INSTRUCTION TYPE CARD

	3495		FIELD	106
	3497		FIELD	106
	3498		FIELD	106
	3502		FIELD	107
	3503		FIELD	107
	3507		FIELD	107
	3511		FIELD	107
	3515		FIELD	107
	3519		FIELD	107
	3526		FIELD	108
	3531		FIELD	108
	3532		FIELD	108
	3535		FIELD	108
	3536		FIELD	108
	3543		FIELD	108
	3548		FIELD	109
	3554		FIELD	109
1	3556			109
1	3557			109
8	3565			109
5	3570			109
4	3574			109
50	3624			121
21	3645			111
12	3657			112
33	3690			113
24	3714			114
14	3728			114
19	3747			115
46	3793			117
11	3804			117
1	3805			117
49	3854			119
31	3885			120
4	3886	B J2S		120
4	3890	, 001		120
5	3894	B Q5X E		121
5	3899	B K2X C		121
5	3904	B QOU A		121
1	3909	1		121
7	3910	C 006 +7T		121
5	3917	B -8/ U		121
7	3922	M 006 +7T		121
7	3929	C +7T M65		122
5	3936	B -9Z U		122
5	3941	B K2X T		122
2	3946	F 1		122
7	3948	M 382 289		122
7	3955	M +8+ 323		122
7	3962	M +8Y 332		123

SEQ	PG	LIN	LABEL	OP	OPERANDS
348	10	05		CC	S
349	10	06		W	
350	10	07		CS	
351	10	08		CS	
352	10	09		MLC	H11,332
353	10	10		W	
354	10	101		CS	
355	10	102		CS	
356	10	11		MLC	H12,332
357	10	12		CC	S
358	10	13		W	
359	10	14		CS	
360	10	15		CS	
361	10	16		MLC	FILE,206
362	10	17		MLC	SSN,216
363	10	18		MLC	NAME,248
364	10	19		BBE	MOV1,YN1,8
365	10	20		B	PRACE
366	10	21	MOV1	MLC	'X',251
367	10	22	PRACE	MLC	RACE,255
368	10	23		LCA	EWD1,266
369	10	24		MCE	DOB,266
370	10	25		BBE	MOV2,YN2,2
371	10	26		B	CK1
372	10	27	MOV2	MLC	'X',269
373	10	28	CK1	BBE	MOV3,YN2,-
374	10	29		B	DEP
375	10	30	MOV3	MLC	'X',274
376	11	01	DEP	MLC	DEPPR,279
377	11	02		MLC	DEPSC,283
378	11	03		MLC	DOS,287
379	11	04		LCA	EWD2,296
380	11	05		MCE	DOSDT,296
381	11	06		BBE	MOV4,YN1-1,8
382	11	07		B	SEC
383	11	08	MOV4	MLC	'X',302
384	11	09	SEC	MLC	SECBG,307
385	11	10		LCA	EWD1,316
386	11	11		MCE	SECOT,316
387	11	12		MLC	DECOR,319
388	11	13		MLC	PCN,328
389	11	14		MLC	SGC,331
390	11	15		CC	T
391	11	16		W	
392	11	17		CS	
393	11	18		CS	
394	11	19		MLC	H21,332
395	11	20		W	
396	11	201		CS	
397	11	202		CS	

A

SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2	3969	F	S		123
1	3971	2			123
1	3972	/			123
1	3973	/			123
7	3974	M	458	332	123
1	3981	2			123
1	3982	/			124
1	3983	/			124
7	3984	M	588	332	124
2	3991	F	S		124
1	3993	2			124
1	3994	/			124
1	3995	/			124
7	3996	M	M65	206	125
7	4003	M	N89	216	125
7	4010	M	M96	248	125
8	4017	M	022	M40 8	125
4	4025	B	03W		125
7	4029	M	+82	251	126
7	4036	M	N27	255	126
7	4043	L	E65	266	126
7	4050	E	N33	266	126
8	4057	M	062	M41 2	126
4	4065	B	07W		127
7	4069	M	+82	269	127
8	4076	M	08Y	M41 -	127
4	4084	B	09V		127
7	4088	M	+82	274	127
7	4095	M	N78	279	127
7	4102	M	N79	283	128
7	4109	M	P26	287	128
7	4116	L	E70	296	128
7	4123	E	P30	296	128
8	4130	M	14S	M39 8	128
4	4138	B	142		129
7	4142	M	+82	302	129
7	4149	M	N80	307	129
7	4156	L	E65	316	129
7	4163	E	053	316	129
7	4170	M	M58	319	129
7	4177	M	061	328	130
7	4184	M	N35	331	130
2	4191	F	T		130
1	4193	2			130
1	4194	/			130
1	4195	/			130
7	4196	M	720	332	130
1	4203	2			131
1	4204	/			131
1	4205	/			131



SEQ	PG	LIN	LABEL	OP	OPERANDS
398	11	21		MLC	H22,332
399	11	22		CC	S
400	11	23		W	
401	11	231		CS	
402	11	232		CS	
403	11	24		MLC	GRADE,203
404	11	25		MLC	PROM,210
405	11	26		MLC	DESIG,215
406	11	27		MLC	DESIGP,219
407	11	28		MLC	PRMGR,223
408	11	29		MLC	SPGRD,231
409	11	30		MLC	SPOT1,235
410	12	01		MLC	OSC,241
411	12	02		MLC	CSC,245
412	12	03		MLC	BLDUP,249
413	12	04		MLC	LOSS,256
414	12	05		MLC	LOSSD,262
415	12	06		MLC	YRGRP,266
416	12	07		MLC	SRVDT,270
417	12	08		MLC	PRECN,281
418	12	09		MLC	PREC1,291
419	12	10		BBE	MOV5,YN1-1,-
420	12	11		B	GAIN
421	12	12	MOV5	MLC	'X',294
422	12	13	GAIN	LCA	EWD1,305
423	12	14		MCE	RGAIN,305
424	12	15		LCA	EWD1,314
425	12	16		MCE	IGAIN,314
426	12	17		LCA	EWD1,323
427	12	18		MCE	DOR,323
428	12	19		LCA	EWD1,332
429	12	20		MCE	SPDOR,332
430	12	21		CC	T
431	12	22		W	
432	12	221		CS	
433	12	222		CS	
434	12	23		MLC	H31,332
435	12	24		W	
436	12	25		CS	
437	12	26		CS	
438	12	27		MLC	H32,331
439	12	28		CC	S
440	12	29		W	
441	13	01		CS	
442	13	02		CS	
443	13	03		LCA	EWD1,208
444	13	04		MCE	PEBD,208
445	13	05		LCA	EWD1,219
446	13	06		MCE	ADBD,219
447	13	07		LCA	EWD1,230

A

SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7		4206	M 852	332	131
2		4213	F S		131
1		4215	2		131
1		4216	/		131
1		4217	/		132
7		4218	M M97	203	132
7		4225	M N01	210	132
7		4232	M N20	215	132
7		4239	M E35	219	132
7		4246	M N02	223	132
7		4253	M N03	231	133
7		4260	M N04	235	133
7		4267	M N23	241	133
7		4274	M N26	245	133
7		4281	M M57	249	133
7		4288	M N40	256	134
7		4295	M P79	262	134
7		4302	M N16	266	134
7		4309	M P19	270	134
7		4316	M N13	281	134
7		4323	M Q96	291	135
8		4330	W 345	M39 -	135
4		4338	B 342		135
7		4342	M +82	294	135
7		4349	L E65	305	135
7		4356	E 031	305	136
7		4363	L E65	314	136
7		4370	E 025	314	136
7		4377	L E65	323	136
7		4384	E 041	323	136
7		4391	L E65	332	137
7		4398	E 047	332	137
2		4405	F T		137
1		4407	2		137
1		4408	/		137
1		4409	/		137
7		4410	M 984	332	137
1		4417	2		138
1		4418	/		138
1		4419	/		138
7		4420	M /15	331	138
2		4427	F S		138
1		4429	2		138
1		4430	/		138
1		4431	/		139
7		4432	L E65	208	139
7		4439	E 007	208	139
7		4446	L E65	219	139
7		4453	E 013	219	139
7		4460	L E65	230	139

B

SEQ	PG	LIN	LABEL	OP	OPERANDS
448	13	08		MCE	ACBD,230
449	13	09		LCA	EWD2,237
450	13	10		MCE	COMM,237
451	13	11		LCA	EWPH,309
452	13	12		MCE	PH,309
453	13	13		MLC	PMSBR,313
454	13	14		MLC	PMSFR,317
455	13	15		MLC	PMSMO,320
456	13	16		MLC	PMSHR,325
457	13	17		MLC	CLYR,328
458	13	18		MLC	YFER,331
459	13	19		CC	T
460	13	20		W	
461	13	21		CS	
462	13	22		CS	
463	13	23		MLC	H41,332
464	13	24		W	
465	13	25		CS	
466	13	26		CS	
467	13	27		MLC	H42,332
468	13	28		CC	S
469	13	29		W	
470	13	30		CS	
471	14	01		CS	
472	14	02		LCA	EWD1,208
473	14	03		MCE	PSD,208
474	14	04		MLC	BUIC,216
475	14	05		MLC	BUICL,224
476	14	06		MLC	BUICP,232
477	14	07		MLC	BUICA,240
478	14	08		MLC	PAMI,243
479	14	09		MLC	PAMIP,245
480	14	10		MLC	COG,249
481	14	11		MLC	COGP,253
482	14	12		MLC	CAT,258
483	14	13		MLC	CATP,260
484	14	14		MLC	GLI,263
485	14	15		MLC	ORDST,268
486	14	16		MLC	ORSTA,270
487	14	17		MLC	ACTVY,280
488	14	18		LCA	EWD2,287
489	14	19		MCE	BILDT,287
490	14	20		MLC	PRIDU,303
491	14	21		MLC	COLDU,318
492	14	22		MLC	DUTR,325
493	14	23		LCA	EWD2,332
494	14	24		MCE	DUTRQ,332
495	14	25		CC	T
496	14	26		W	
497	14	27		CS	

SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7	4467	E	D19	230	140
7	4474	L	E70	237	140
7	4481	E	O35	237	140
7	4488	L	F45	309	140
7	4495	E	Q54	309	140
7	4502	M	P95	313	141
7	4509	M	Q00	317	141
7	4516	M	Q02	320	141
7	4523	M	Q06	325	141
7	4530	M	P17	328	141
7	4537	M	O55	331	142
2	4544	F	T		142
1	4546	2			142
1	4547	/			142
1	4548	/			142
7	4549	M	S47	332	142
1	4556	2			142
1	4557	/			143
1	4558	/			143
7	4559	M	T79	332	143
2	4566	F	S		143
1	4568	2			143
1	4569	/			143
1	4570	/			143
7	4571	L	E65	208	144
7	4578	E	P25	208	144
7	4585	M	N54	216	144
7	4592	M	P86	224	144
7	4599	M	E26	232	144
7	4606	M	E43	240	145
7	4613	M	M43	243	145
7	4620	M	E03	245	145
7	4627	M	N71	249	145
7	4634	M	D92	253	145
7	4641	M	N77	258	146
7	4648	M	D90	260	146
7	4655	M	M59	263	146
7	4662	M	N72	268	146
7	4669	M	E36	270	146
7	4676	M	P94	280	147
7	4683	L	E70	287	147
7	4690	E	P43	287	147
7	4697	M	P57	303	147
7	4704	M	P76	318	147
7	4711	M	P35	325	148
7	4718	L	E70	332	148
7	4725	E	P39	332	148
2	4732	F	T		148
1	4734	2			148
1	4735	/			148

B

SEQ	PG	LIN	LABEL	OP	OPERANDS
498	14	28		CS	
499	15	01		MLC	H51,332
500	15	02		W	
501	15	03		CS	
502	15	04		CS	
503	15	05		MLC	H52,332
504	15	06		CC	S
505	15	07		W	
506	15	08		CS	
507	15	09		CS	
508	15	10		MLC	FAC,201
509	15	11		MLC	FACP,203
510	15	12		MLC	BSC,210
511	15	13		MLC	RSCP,216
512	15	14		MLC	BSCA,222
513	15	15		LCA	EWDT1,231
514	15	16		MCE	DTRPT,231
515	15	17		LCA	EWDT2,237
516	15	18		MCE	EDAP,237
517	15	19		LCA	EWDT1,246
518	15	20		MCE	DRPTA,246
519	15	21		MLC	ELC,249
520	15	22		LCA	EWDT1,259
521	15	23		MCE	ELD,259
522	15	24		MLC	ELCP,263
523	15	25		LCA	EWDT2,270
524	15	26		MCE	ELDP,270
525	15	27		LCA	EWDT2,276
526	15	28		MCE	PRD,276
527	15	29		LCA	EWDT2,282
528	15	30		MCE	PROD,282
529	16	02		MLC	RP,287
530	16	04		MLC	RPP,293
531	16	05		LCA	EWDT2,300
532	16	06		MCE	TUUR,300
533	16	07		LCA	EWDT2,306
534	16	08		MCE	TOURP,306
535	16	09		BBE	MOV6,YN2,8
536	16	10		B	CK2
537	16	11	MOV6	MLC	'X',309
538	16	12	CK2	BBE	MOV7,YN2,1
539	16	13		B	DTRMKS
540	16	14	MOV7	MLC	'X',311
541	16	15	DTRMKS	MLC	DTRMK,319
542	16	16		MLC	TYPEAP,325
543	16	17		BBE	MOV,YN2,4
544	16	18		B	CCT
545	16	19	MOV	MLC	'X',330
546	16	20	CCT	CC	T
547	16	21		W	

A

ND	SFX	CT	LOGN	INSTRUCTION	TYPE	CARD
	1		4736	/		148
32	7		4737	M V11	332	149
	1		4744	2		149
	1		4745	/		149
	1		4746	/		149
32	7		4747	M W43	332	149
	2		4754	F S		149
	1		4756	2		149
	1		4757	/		150
	1		4758	/		150
01	7		4759	M N69	201	150
203	7		4766	M D95	203	150
10	7		4773	M P62	210	150
216	7		4780	M E31	216	150
222	7		4787	M E48	222	150
231	7		4794	L E65	231	151
231	7		4801	E N60	231	151
237	7		4808	L E70	237	151
237	7		4815	E E15	237	151
246	7		4822	L E65	246	151
246	7		4829	E E54	246	152
9	7		4836	M N41	249	152
259	7		4843	L E65	259	152
59	7		4850	E N47	259	152
263	7		4857	M D98	263	152
270	7		4864	L E70	270	153
270	7		4871	E E02	270	153
276	7		4878	L E70	276	153
76	7		4885	E N64	276	153
282	7		4892	L E70	282	153
282	7		4899	E E07	282	154
7	7		4906	M N74	287	154
93	7		4913	M D97	293	154
300	7		4920	L E70	300	154
300	7		4927	E N68	300	154
306	7		4934	L E70	306	155
306	7		4941	E B11	306	155
W2,8	8		4948	W 964	M41 8	155
	4		4956	B 96X		155
09	7		4960	M +82	309	155
W2,1	8		4967	W 97Z	M41 1	156
5	4		4975	B 98W		156
11	7		4979	M +82	311	156
319	7		4986	M O95	319	156
325	7		4993	M E32	325	156
W2,4	8		5000	W +1S	M41 4	157
	4		5008	B +1Z		157
00	7		5012	M +8Z	330	157
	2		5019	F T		157
	1		5021	2		157

B

SEQ	PG	LIN	LABEL	OP	OPERANDS
548	16	22		CS	
549	16	23		CS	
550	16	24		MLC	H61,332
551	16	25		W	
552	16	26		CS	
553	16	27		CS	
554	16	28		MLC	H62,332
555	16	29		CC	S
556	16	30		W	
557	17	01		CS	
558	17	02		CS	
559	17	03		LCA	EWD2,205
560	17	04		MCE	EDD,205
561	17	05		MLC	PAD,211
562	17	06		MLC	PADP,216
563	17	07		BBE	MOV8,YN1-1,4
564	17	08		B	COMMO
565	17	09	MOV8	MLC	'X',221
566	17	10	COMMO	MLC	COMMOS,225
567	17	11		MLC	COMBTR,229
568	17	12		LCA	EWD3,236
569	17	13		MCE	COMBAT,236
570	17	14		MLC	COMAC,239
571	17	15		BBE	MOV9,YN1-1,2
572	17	16		B	CK3
573	17	17	MOV9	MLC	'X',244
574	17	18	CK3	BBE	MOV10,YN1,-
575	17	19		B	SUB
576	17	20	MOV10	MLC	'X',251
577	17	21	SUB	LCA	EWD2,258
578	17	22		MCE	SUBOT,258
579	17	23		MLC	CNSRVI,263
580	17	24		MLC	CONSRV,269
581	17	25		MLC	PLTHR,278
582	17	26		MLC	P15YR,283
583	17	27		MLC	JTHRS,288
584	17	28		MLC	VHHR,293
585	17	29		MLC	PCTOT,298
586	17	30		MLC	CLTOT,304
587	18	01		MLC	INST,310
588	18	02		LCA	EWD2,322
589	18	03		MCE	D3760,322
590	18	04		MLC	T3760,330
591	18	05		CC	T
592	18	06		W	
593	18	07		CS	
594	18	08		CS	
595	18	09		MLC	H71,332
596	18	10		W	
597	18	11		CS	

A

DS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
	1		5022	/		157
	1		5023	/		157
2	7		5024	M X75	332	158
	1		5031	2		158
	1		5032	/		158
	1		5033	/		158
2	7		5034	M 207	332	158
	2		5041	F S		158
	1		5043	2		158
	1		5044	/		159
	1		5045	/		159
205	7		5046	L E70	205	159
5	7		5053	E E19	205	159
1	7		5060	M N36	211	159
16	7		5067	M D93	216	159
N1-1,4	8		5074	W +8W	M39 4	159
	4		5082	B +9T		160
1	7		5086	M +8Z	221	160
,225	7		5093	M M56	225	160
,229	7		5100	M 079	229	160
236	7		5107	L E74	236	160
,236	7		5114	E 098	236	160
239	7		5121	M 099	239	161
N1-1,2	8		5128	W /4+	M39 2	161
	4		5136	B /4X		161
	7		5140	M +8Z	244	161
YN1,-	8		5147	W /5Z	M40 -	161
	4		5155	B /6W		161
1	7		5159	M +8Z	251	162
258	7		5166	L E70	258	162
258	7		5173	E P15	258	162
,263	7		5180	M Q86	263	162
,269	7		5187	M Q88	269	162
278	7		5194	M R78	278	163
283	7		5201	M R82	283	163
288	7		5208	M R86	288	163
293	7		5215	M R90	293	163
298	7		5222	M R94	298	163
304	7		5229	M R97	304	164
10	7		5236	M +01	310	164
322	7		5243	L E70	322	164
322	7		5250	E R72	322	164
330	7		5257	M R73	330	164
	2		5264	F T		164
	1		5266	2		164
	1		5267	/		165
	1		5268	/		165
2	7		5269	M -39	332	165
	1		5276	2		165
	1		5277	/		165

B

SEQ	PG	LIN	LABEL	OP	OPERANDS
598	18	12		CS	
599	18	13		MLC	H72,332
600	18	14		CC	S
601	18	15		W	
602	18	16		CS	
603	18	17		CS	
604	18	18		LCA	EWDORE,212
605	18	19		MCE	DORE,212
606	18	191		MZ	DORE,212
607	18	20		LCA	EWED,246
608	18	21		MCE	ED1,246
609	18	211		MZ	ED1,246
610	18	22		BBE	MOV11,YN1,4
611	18	23		B	LANG
612	18	24	MOV11	MLC	'X',250
613	18	25	LANG	MLC	LANG1,258
614	18	26		MLC	LNGP1,261
615	18	27		MLC	LNGPR1,266
616	18	28		MLC	LNGDT1,271
617	19	01		BBE	MOV12,YN1-1,1
618	19	02		B	DESCH
619	19	03	MOV12	MLC	'X',274
620	19	04	DESCH	LCA	EWDES,289
621	19	05		MCE	DESCH1,289
622	19	06		LCA	EWDT2,296
623	19	07		MCE	HTA,296
624	19	08		LCA	EWDT2,302
625	19	09		MCE	LTA,302
626	19	10		LCA	EWDT2,310
627	19	11		MCE	NFOOT,310
628	19	12		MLC	PCAT,315
629	19	13		MLC	FSC,324
630	19	14		MLC	FSCP,330
631	19	15		W	
632	19	16		CS	
633	19	17		CS	
634	19	18		LCA	EWED,246
635	19	19		MCE	ED2,246
636	19	191		MZ	ED2,246
637	19	20		MLC	LANG2,258
638	19	21		MLC	LNGP2,261
639	19	22		MLC	LNGPR2,266
640	19	23		MLC	LNGDT2,271
641	19	24		LCA	EWDES,289
642	19	25		MCE	DESCH2,289
643	19	251		CC	T
644	19	26		W	
645	19	27		CS	
646	19	28		CS	
647	20	01		MLC	H81,332

RANDS

332

DRE,212

E,212

E,212

D,246

,246

,246

1,YN1,4

G

,250

G1,258

P1,261

PR1,266

DT1,271

12,YN1-1,1

CH

,274

ES,289

H1,289

,2,296

,296

,2,302

,302

,2,310

T,310

,315

,324

,330

,246

,246

,246

,2,258

,2,261

R2,266

T2,271

S,289

H2,289

332

SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1		5278	/		165
7		5279	M J71	332	165
2		5286	F S		166
1		5288	2		166
1		5289	/		166
1		5290	/		166
7		5291	L F57	212	166
7		5298	E Q77	212	166
7		5305	Y Q77	212	166
7		5312	L F90	246	167
7		5319	E R16	246	167
7		5326	Y R16	246	167
8		5333	M T4V	M40 4	167
4		5341	B T5S		167
7		5345	M +8Z	250	168
7		5352	M R40	258	168
7		5359	M R41	261	168
7		5366	M R42	266	168
7		5373	M R47	271	168
8		5380	M T9S	M39 1	169
4		5388	B T9Z		169
7		5392	M +8Z	274	169
7		5399	L H04	289	169
7		5406	E Q62	289	169
7		5413	L E70	296	170
7		5420	E P03	296	170
7		5427	L E70	302	170
7		5434	E P07	302	170
7		5441	L E70	310	170
7		5448	E P11	310	171
7		5455	M N34	315	171
7		5462	M N37	324	171
7		5469	M D94	330	171
1		5476	2		171
1		5477	/		171
1		5478	/		171
7		5479	L F90	246	172
7		5486	E R36	246	172
7		5493	Y R36	246	172
7		5500	M R51	258	172
7		5507	M R52	261	172
7		5514	M R53	266	173
7		5521	M R58	271	173
7		5528	L H04	289	173
7		5535	E Q70	289	173
2		5	F T		173
1		5544	2		173
1		5545	/		173
1		5546	/		174
7		5547	M L03	332	174

B

SEQ	PG	LIN	LABEL	OP	OPERANDS
648	20	02		W	
649	20	03		CS	
650	20	04		CS	
651	20	05		MLC	H82,331
652	20	06		CC	S
653	20	07		W	
654	20	08		CS	
655	20	09		CS	
656	20	10		MLC	SUBSP1,208
657	20	11		LCA	EWSCH,227
658	20	12		MCE	SCH1,227
659	20	13		LCA	EWQL,248
660	20	14		MCE	QL1,248
661	20	141		MZ	QL1,248
662	20	15		LCA	EWAC,274
663	20	16		MCE	ACMOD1,274
664	20	17		LCA	EWPDS,323
665	20	18		MCE	PDS1,323
666	20	19		MLC	SPDES1,330
667	20	20		W	
668	20	21		CS	
669	20	22		CS	
670	20	23		MLC	SUBSP2,208
671	20	24		LCA	EWSCH,227
672	20	25		MCE	SCH2,227
673	20	26		LCA	EWQL,248
674	20	27		MCE	QL2,248
675	20	271		MZ	QL2,248
676	20	28		LCA	EWAC,274
677	20	29		MCE	ACMOD2,274
678	21	01		LCA	EWPDS,323
679	21	02		MCE	PDS2,323
680	21	03		MLC	SPDES2,330
681	21	04		W	
682	21	05		CS	
683	21	06		CS	
684	21	07		LCA	EWSCH,227
685	21	08		MCE	SCH3,227
686	21	09		LCA	EWQL,248
687	21	10		MCE	QL3,248
688	21	101		MZ	QL3,248
689	21	11		LCA	EWAC,274
690	21	12		MCE	ACMOD3,274
691	21	13		LCA	EWPDS,323
692	21	14		MCE	PDS3,323
693	21	15		MLC	SPDES3,330
694	21	16		W	
695	21	17		CS	
696	21	18		CS	
697	21	19		LCA	EWSCH,227

A

SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1		5554	2		174
1		5555	/		174
1		5556	/		174
7		5557	M M34	331	174
2		5564	F S		174
1		5566	2		175
1		5567	/		175
1		5568	/		175
7		5569	M R63	208	175
7		5576	L G28	227	175
7		5583	E A19	227	175
7		5590	L G47	248	175
7		5597	E A65	248	176
7		5604	Y A65	248	176
7		5611	L G14	274	176
7		5618	E +19	274	176
7		5625	L G93	323	176
7		5632	E B58	323	177
7		5639	M +86	330	177
1		5646	2		177
1		5647	/		177
1		5648	/		177
7		5649	M R68	208	177
7		5656	L G28	227	177
7		5663	E A28	227	178
7		5670	L G47	248	178
7		5677	E A75	248	178
7		5684	Y A75	248	178
7		5691	L G14	274	178
7		5698	E +35	274	179
7		5705	L G93	323	179
7		5712	E B91	323	179
7		5719	M +89	330	179
1		5726	2		179
1		5727	/		179
1		5728	/		179
7		5729	L G28	227	180
7		5736	E A37	227	180
7		5743	L G47	248	180
7		5750	E A85	248	180
7		5757	Y A85	248	180
7		5764	L G14	274	181
7		5771	E +51	274	181
7		5778	L G93	323	181
7		5785	E C24	323	181
7		5792	M +92	330	181
1		5799	2		181
1		5800	/		181
1		5801	/		182
7		5802	L G28	227	182

B

SEQ	PG	LIN	LABEL	OP	OPERANDS
698	21	20		MCE	SCH4,227
699	21	21		LCA	EWQL,248
700	21	22		MCE	QL4,248
701	21	221		MZ	QL4,248
702	21	23		LCA	EWAC,274
703	21	24		MCE	ACMOD4,274
704	21	25		LCA	EWPDS,323
705	21	26		MCE	PDS4,323
706	21	27		MLC	SPDES4,330
707	21	28		W	
708	22	01		CS	
709	22	02		CS	
710	22	03		LCA	EWSCH,227
711	22	04		MCE	SCH5,227
712	22	05		LCA	EWQL,248
713	22	06		MCE	QL5,248
714	22	061		MZ	QL5,248
715	22	07		LCA	EWAC,274
716	22	08		MCE	ACMOD5,274
717	22	09		LCA	EWPDS,323
718	22	10		MCE	PDS5,323
719	22	11		MLC	SPDES5,330
720	22	12		W	
721	22	13		CS	
722	22	14		CS	
723	22	15		LCA	EWQL,248
724	22	16		MCE	QL6,248
725	22	161		MZ	QL6,248
726	22	17		LCA	EWPDS,323
727	22	18		MCE	PDS6,323
728	22	19		MLC	SPDES6,330
729	22	20		W	
730	22	21		CS	
731	22	22		CS	
732	22	23		LCA	EWQL,248
733	22	24		MCE	QL7,248
734	22	241		MZ	QL7,248
735	22	25		LCA	EWPDS,323
736	22	26		MCE	PDS7,323
737	22	27		MLC	SPDES7,330
738	22	28		W	
739	23	01		CS	
740	23	02		CS	
741	23	03		LCA	EWPDS,323
742	23	04		MCE	PDS8,323
743	23	05		MLC	SPDES8,330
744	23	06		W	
745	23	07		CS	
746	23	08		CS	
747	23	09		MLC	SPDES9,330

RANDS

	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
,227	7	5809	E	A46	227	182
,248	7	5816	L	G47	248	182
,248	7	5823	E	A95	248	182
,248	7	5830	Y	A95	248	182
,274	7	5837	L	G14	274	183
,274	7	5844	E	+67	274	183
,323	7	5851	L	G93	323	183
,323	7	5858	E	C57	323	183
,330	7	5865	M	+95	330	183
	1	5872	2			183
	1	5873	/			183
	1	5874	/			184
,227	7	5875	L	G28	227	184
,227	7	5882	E	A55	227	184
,248	7	5889	L	G47	248	184
,248	7	5896	E	B05	248	184
,274	7	5903	Y	B05	248	184
,274	7	5910	L	G14	274	185
,323	7	5917	E	+83	274	185
,323	7	5924	L	G93	323	185
,330	7	5931	E	C90	323	185
	7	5938	M	+98	330	185
	1	5945	2			185
	1	5946	/			185
	1	5947	/			186
,248	7	5948	L	G47	248	186
,248	7	5955	E	B15	248	186
,248	7	5962	Y	B15	248	186
,323	7	5969	L	G93	323	186
,323	7	5976	E	D23	323	186
,330	7	5983	M	A01	330	187
	1	5990	2			187
	1	5991	/			187
	1	5992	/			187
,248	7	5993	L	G47	248	187
,248	7	6000	E	B25	248	187
,248	7	6007	Y	B25	248	187
,323	7	6014	L	G93	323	188
,323	7	6021	E	D56	323	188
,330	7	6028	M	A04	330	188
	1	6035	2			188
	1	6036	/			188
	1	6037	/			188
,323	7	6038	L	G93	323	188
,323	7	6045	E	D89	323	189
,330	7	6052	M	A07	330	189
	1	6059	2			189
	1	6060	/			189
	1	6061	/			189
,330	7	6062	M	A10	330	189

SEQ	PG	LIN	LABEL	OP	OPERANDS
748	23	10		W	
749	23	11		CS	
750	23	12		CS	
751	23	13		BSS	RDTP,C
752	23	14		B	READ
753	23	15	MESS1	MLC	'CARD OUT OF SEQUENCE',220
754	23	16		MLC	80,301
755	23	17		B	PRMESS
756	23	18	MESS2	MLC	'NO MATCH FOR THIS CARD',222
757	23	19		MLC	80,303
758	23	20	PRMESS	CC	1
759	23	21		W	
760	23	22		CS	
761	23	23		CS	
762	23	24		B	READ
763	23	25	HEAD	SBR	HDEX+3
764	23	26		RT	1,TPH
765	23	27		C	TPH+9,'E697XX W1 '
766	23	28		BU	INV
767	23	29		C	TPH+35,REEL
768	24	01		BU	INV
769	24	02		MA	'001',REEL
770	24	03		MLC	TPH+17,HDATE
771	24	05		B	HDEX
772	24	07	INV	BSS	HDEX,B
773	24	08		RWU	1
774	24	09		MLC	'INVALID HEADER',214
775	24	10		MLC	TPH+17,HDATE
776	24	11		MLC	TPH+79,300
777	24	12		CC	1
778	24	13		W	
779	24	14		CS	
780	24	15		CS	
781	24	16		H	1111,1111 BAD HEADER
782	24	17		B	HEAD+4
783	24	18	HDEX	B	0
784	24	19	RDTP	RT	1,TAPE
785	24	20		NOP	0
786	24	21		BEF	EOR
787	24	22		BER	ZZERRR
788	24	23		BER	ERR
789	24	24		BCE	WLR,GRMK,
790	24	25		MLC	' ',GRMK
791	24	26		BSS	INR,D
792	24	27	RSSW	BSS	RSS,E
793	24	28		BSS	PRINT,C
794	24	29		B	COMP
795	25	01	ERR	CC	1
796	25	02		MLC	'TAPE ERROR',210
797	25	03		W	

A

RANDS

SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1	6069	2			189
1	6070	/			190
1	6071	/			190
5	6072	B K2X	C		190
4	6077	B I04			190
7	6081	M A0Z	220		190
7	6088	M 080	301		190
4	6095	B J1T			190
7	6099	M A3/	222		191
7	6106	M 080	303		191
2	6113	F 1			191
1	6115	2			191
1	6116	/			191
1	6117	/			191
4	6118	B I04			191
4	6122	M K2W			192
8	6126	M (U1	M05 R		192
7	6134	C H14	A4/		192
5	6141	B J7W	/		192
7	6146	C H40	Q3+		192
5	6153	B J7W	/		192
7	6158	A A4U	Q3+		193
7	6165	M H22	+8Y		193
4	6172	B K2T			193
5	6176	B K2T	B		193
5	6181	U (U1	U		193
7	6186	M A5Y	214		193
7	6193	M H22	+8Y		194
7	6200	M H84	300		194
2	6207	F 1			194
1	6209	2			194
1	6210	/			194
1	6211	/			194
7	6212	A /11	/11		194
4	6219	B J2W			195
4	6223	B 000			195
8	6227	M (U1	M35 R		195
4	6235	N 000			195
5	6239	B P6U	K		195
5	6244	B Q8Z	L		195
5	6249	B K8Y	L		195
8	6254	B 09Y	E56		196
7	6262	M A5Z	E56		196
5	6269	B Q3/	D		196
5	6274	B Q6S	E		196
5	6279	B I46	C		196
4	6284	B I29			196
2	6288	F 1			196
7	6290	M A6Z	210		197
1	6297	2			197

P,C

D

RD OUT OF SEQUENCE',220

301

ESS

MATCH FOR THIS CARD',222

303

K+3

PH

9,'E697XX W1

35,REEL

',REEL

17,HDATE

,B

ALID HEADER',214

17,HDATE

79,300

,1111 BAD HEADER

+4

PE

RR

GRMK,

GRMK

D

E

T,C

E ERROR',210

B

SEQ	PG	LIN	LABEL	OP	OPERANDS
798	25	04	SW	SW	201
799	25	05		MLC	TAPE+100,HLD=1
800	25	06		LCA	' ',TAPE+100
801	25	07		MRCM	TAPE,201
802	25	08		W	
803	25	09		CS	
804	25	10		CS	
805	25	101		MLC	HLD,TAPE+100
806	25	11		MLC	TAPE+200,HLD
807	25	12		LCA	' ',TAPE+200
808	25	13		MRCM	TAPE+100,201
809	25	14		W	
810	25	15		CS	
811	25	16		CS	
812	25	17		MLC	HLD,TAPE+200
813	25	18		CW	TAPE+200
814	25	19		MLC	TAPE+300,HLD
815	25	20		LCA	' ',TAPE+300
816	25	21		MRCM	TAPE+200,201
817	25	22		W	
818	25	23		CS	
819	25	24		CS	
820	25	25		MLC	HLD,TAPE+300
821	25	26		CW	TAPE+300
822	26	01		MLC	TAPE+400,HLD
823	26	02		LCA	' ',TAPE+400
824	26	03		MRCM	TAPE+300,201
825	26	04		W	
826	26	05		CS	
827	26	06		CS	
828	26	07		MLC	HLD,TAPE+400
829	26	08		CW	TAPE+400
830	26	09		MLC	TAPE+500,HLD
831	26	10		LCA	' ',TAPE+500
832	26	11		MRCM	TAPE+400,201
833	26	12		W	
834	26	13		CS	
835	26	14		CS	
836	26	15		MLC	HLD,TAPE+500
837	26	16		CW	TAPE+500
838	26	17		MLC	TAPE+600,HLD
839	26	18		LCA	' ',TAPE+600
840	26	19		MRCM	TAPE+500,201
841	26	20		W	
842	26	21		CS	
843	26	22		CS	
844	26	23		MLC	HLD,TAPE+600
845	26	24		CW	TAPE+600
846	26	25		MLC	TAPE+700,HLD
847	26	26		LCA	' ',TAPE+700

A

ERANDS

E+100, HLD=1
 , TAPE+100
 E, 201

, TAPE+100
 E+200, HLD
 , TAPE+200
 E+100, 201

, TAPE+200
 E+200
 E+300, HLD
 , TAPE+300
 E+200, 201

, TAPE+300
 E+300
 E+400, HLD
 , TAPE+400
 E+300, 201

, TAPE+400
 E+400
 E+500, HLD
 , TAPE+500
 E+400, 201

, TAPE+500
 +500
 +600, HLD
 TAPE+600
 +500, 201

, TAPE+600
 +600
 +700, HLD
 TAPE+700

SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4	6298		201		197
7	6302	M	N35 A7+		197
7	6309	L	A7/ N35		197
7	6316	P	M35 201		197
1	6323	2			197
1	6324	/			198
1	6325	/			198
7	6326	M	A7+ N35		198
7	6333	M	O35 A7+		198
7	6340	L	A7/ O35		198
7	6347	P	N35 201		198
1	6354	2			198
1	6355	/			199
1	6356	/			199
7	6357	M	A7+ O35		199
4	6364	J	O35		199
7	6368	M	P35 A7+		199
7	6375	L	A7/ P35		199
7	6382	P	O35 201		199
1	6389	2			200
1	6390	/			200
1	6391	/			200
7	6392	M	A7+ P35		200
4	6399	J	P35		200
7	6403	M	Q35 A7+		200
7	6410	L	A7/ Q35		200
7	6417	P	P35 201		201
1	6424	2			201
1	6425	/			201
1	6426	/			201
7	6427	M	A7+ Q35		201
4	6434	J	Q35		201
7	6438	M	R35 A7+		201
7	6445	L	A7/ R35		202
7	6452	P	Q35 201		202
1	6459	2			202
1	6460	/			202
1	6461	/			202
7	6462	M	A7+ R35		202
4	6469	J	R35		202
7	6473	M	+35 A7+		203
7	6480	L	A7/ +35		203
7	6487	P	R35 201		203
1	6494	2			203
1	6495	/			203
1	6496	/			203
7	6497	M	A7+ +35		203
4	6504	J	+35		204
7	6508	M	A35 A7+		204
7	6515	L	A7/ A35		204

B

SFX

SEQ	PG	LIN	LABEL	OP	OPERANDS
848	26	27		MRCM	TAPE+600,201
849	26	28		W	
850	27	01		CS	
851	27	02		CS	
852	27	03		MLC	HLD,TAPE+700
853	27	04		CW	TAPE+700
854	27	05		MLC	TAPE+800,HLD
855	27	06		LCA	' ',TAPE+800
856	27	07		MRCM	TAPE+700,201
857	27	08		W	
858	27	09		CS	
859	27	10		CS	
860	27	11		MLC	HLD,TAPE+800
861	27	12		CW	TAPE+800
862	27	13		MLC	TAPE+900,HLD
863	27	14		LCA	' ',TAPE+900
864	27	15		MRCM	TAPE+800,201
865	27	16		W	
866	27	17		CS	
867	27	18		CS	
868	27	19		MLC	HLD,TAPE+900
869	27	20		CW	TAPE+900
870	27	21		MLC	PDS7-21,HLD
871	27	22		LCA	' ',PDS7-21
872	27	23		MRCM	TAPE+900,201
873	27	24		W	
874	27	25		CS	
875	27	26		CS	
876	27	27		MLC	HLD,PDS7-21
877	27	28		CW	PDS7-21
878	28	01		MLC	DESIGP,HLD
879	28	02		LCA	' ',DESIGP
880	28	03		MRCM	PDS7-21,201
881	28	04		W	
882	28	05		CS	
883	28	06		CS	
884	28	07		MLC	HLD,DESIGP,
885	28	08		CW	DESIGP
886	28	10		MRCM	DESIGP,201
887	28	11		W	
888	28	12		CS	
889	28	13		CS	
890	28	15		B	RDTP
891	28	16	WLR	CC	1
892	28	17		MLC	'WRONG LENGTH RECORD',219
893	28	18		W	
894	28	19	BCE	BCE	BLANK,TAPE+X2,
895	28	20		MA	'001',X2
896	28	21		B	BCE
897	28	22	BLANK	MLC	' ',TAPE+X2

	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
201	7		6522	P +35 201		204
	1		6529	2		204
	1		6530	/		204
	1		6531	/		204
700	7		6532	M A7+ A35		205
	4		6539	J A35		205
HLD	7		6543	M B35 A7+		205
800	7		6550	L A7/ B35		205
201	7		6557	P A35 201		205
	1		6564	2		205
	1		6565	/		205
	1		6566	/		206
800	7		6567	M A7+ B35		206
	4		6574	J B35		206
HLD	7		6578	M C35 A7+		206
900	7		6585	L A7/ C35		206
201	7		6592	P B35 201		206
	1		6599	2		206
	1		6600	/		207
	1		6601	/		207
900	7		6602	M A7+ C35		207
	4		6609	J C35		207
D	7		6613	M D35 A7+		207
21	7		6620	L A7/ D35		207
201	7		6627	P C35 201		207
	1		6634	2		208
	1		6635	/		208
	1		6636	/		208
1	7		6637	M A7+ D35		208
	4		6644	J D35		208
	7		6648	M E35 A7+		208
	7		6655	L A7/ E35		208
1	7		6662	P D35 201		209
	1		6669	2		209
	1		6670	/		209
	1		6671	/		209
	8		6672	M A7+ E35		209
	4		6680	J E35		209
	7		6684	P E35 201		209
	1		6691	2		210
	1		6692	/		210
	1		6693	/		210
	4		6694	B K2X		210
	2		6698	F 1		210
GTH RECORD, 219	7		6700	M A9+ 219		210
+X2,	1		6707	2		210
	8		6708	B P2X ML5		211
	7		6716	A A4U 094		211
	4		6723	B POY		211
	7		6727	M A5Z ML5		211

B

SEQ	PG	LIN	LABEL	OP	OPERANDS
898	28	23		MA	'001',X2
899	28	24		C	X2,'120'
900	28	25		BU	BLANK
901	28	26		MLC	'000',X2
902	28	27		B	SW
903	29	01	EOR	RT	1,TAPE
904	29	02		C	TAPE+2,'EOJ'
905	29	03		BE	EOJ
906	29	04		RWU	1
907	29	05		H	1112,1112
908	29	06		B	HEAD
909	29	07		B	RDTP
910	29	08	EOJ	RWU	1
911	29	09		CC	1
912	29	10		MLC	'END OF JOB',225
913	29	11		W	
914	29	12		CC	1
915	29	13		H	1234,1234
916	29	14	X2	EQU	94
917	29	15	94	DCW	000
918	29	16	REEL	DCW	'001'
919	29	17	INR	MLC	FILE,106
920	29	18		P	
921	29	19		CS	180
922	29	20		P	
923	29	21		P	
924	29	22		RWU	1
925	29	23		H	3333,3333
926	29	24	RS	R	
927	29	25		B	RDTP
928	29	26	RSS	C	FILE,6
929	29	27		BE	HALT
930	29	28		B	RDTP
931	29	29	HALT	H	4444,4444
932	29	30		B	RSSW
933			ZZERRR	SBR	ZZESAX+6
934				SBR	ZZEDUM,0
935				SBR	ZZESX1+6,0+X1
936			ZZESAX	SBR	89,0
937				SBR	ZZERX1+3
938				LCA	15985+X1,ZZEREA
939				MN	15981+X1,*+4
940				BSP	0
941			ZZESX1	SBR	89,0
942			ZZEREA	DCW	=8
943				BER	*+5
944			ZZERX1	B	0
945				BCE	ZZERX1,ZZECNT,8
946				MN	ZZEREA-4,*+4
947			ZZEBSP	BSP	0

A

RANDS

1,X2

120'

WK

0',X2

PE

+2,'EOJ'

,1112

OF JOB',225

,1234

,106

,3333

,6

4444 TURN SW E OFF

AX+6

UM,0

1+6,0+X1

1+3

+X1,ZZEREA

+X1,*+4

1,ZZECNT,8

A-4,*+4

SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7	6734	*	A4U 094		211
7	6741	C	094 A9T		212
5	6748	B	P2X /		212
7	6753	M	A9W 094		212
4	6760	B	K9Y		212
8	6764	M	(U1 M35 R		212
7	6772	C	M37 A9Z		212
5	6779	B	QOU S		213
5	6784	U	(U1 U		213
7	6789	.	/12 /12		213
4	6796	B	J2S		213
4	6800	B	K2X		213
5	6804	U	(U1 U		213
2	6809	F	1		213
7	6811	M	B0Z 225		214
1	6818	2			214
2	6819	F	1		214
7	6821	.	S34 S34		214
	0094				
3	0094				215
3	6830				216
7	6831	M	M65 106		216
1	6838	4			216
4	6839	/	180		216
1	6843	4			216
1	6844	4			216
5	6845	U	(U1 U		216
7	6850	.	C33 C33		217
1	6857	1			217
4	6858	B	K2X		217
7	6862	C	M65 006		217
5	6869	B	Q7Y S		217
4	6874	B	K2X		217
7	6878	.	44U 44U		217
4	6885	B	K7U		218
4	6889	H	R1T	GEN	218
7	6893	H	+6W 000	GEN	218
7	6900	H	R4T 0+0	GEN	218
7	6907	H	089 000	GEN	218
4	6914	H	R6+	GEN	218
7	6918	L	IYE R5/	GEN	219
7	6925	D	IYA R3V	GEN	219
5	6932	U	(U0 B	GEN	219
7	6937	H	089 000	GEN	219
8	6951			GEN	219
5	6952	B	R6/ L	GEN	219
4	6957	B	000	GEN	220
8	6961	B	R5X +6V 8	GEN	220
7	6969	D	R4X R7Z	GEN	220
5	6976	U	(U0 B	GEN	220

B

SEQ	PG	LIN	LABEL	OP	OPERANDS
948				A	ZZEONE,ZZECNT
949				C	ZZECNT,ZZESIX
950				BH	ZZEREA-7
951				BCE	*+5,ZZECNT,8
952				B	ZZEBSP
953				MN	ZZEREA-4,Z7EBS1+3
954				MN	ZZEREA-4,ZZERTT+3
955			ZZERTT	RT	0,ZZEDUM
956				A	ZZEONE,ZZERDT
957				BCE	*+5,ZZERDT,3
958				B	ZZERTT
959			ZZEBS1	BSP	0
960				B	ZZEREA-7
961			ZZEONE	DCW	'1'
962			ZZESIX	DCW	'6'
963			ZZERDT	DCW	=1
964			ZZECNT	DCW	=1
965			ZZEDUM	DC	=1
966				DCW	' '
	338		PRE	DCW	=06
	346				'D A T E'
	347		HDATE		=08
					'X'
	753				'CARD OUT OF SEQUENCE'
	756				'NO MATCH FOR THIS CARD'
	765				'E697XX W1 '
					'001'
	774				'INVALID HEADER'
					' '
	796				'TAPE ERROR'
	799		HLD		=01
					' '
	892				'WRONG LENGTH RECORD'
					'120'
					'000'
					'EOJ'
	912				'END OF JOB'
967	30	01		END	START

A

ANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
NE, ZZECNT	7		6981	A +6S +6V	GEN	220
NT, ZZESIX	7		6988	C +6V +6T	GEN	220
EA-7	5		6995	B R4U U	GEN	221
ZZECNT, 8	8		7000	B +1S +6V 8	GEN	221
SP	4		7008	B R7W	GEN	221
EA-4, ZZESB1+3	7		7012	D R4X +5W	GEN	221
EA-4, ZZERTT+3	7		7019	D R4X +2Z	GEN	221
EDUM	8		7026	M (UO +6W R	GEN	221
NE, ZZERDT	7		7034	A +6S +6U	GEN	222
ZZERDT, 3	8		7041	B +5T +6U 3	GEN	222
TT	4		7049	B +2W	GEN	222
EA-7	5		7053	U (UO B	GEN	222
	4		7058	B R4U	GEN	222
	1		7062		GEN	222
	1		7063		GEN	222
	1		7064		GEN	223
	1		7065		GEN	223
	1		7066		GEN	223
	1		7067		GEN	223
	6		7073		AREA	223
	7		7080		LIT	223
	8		7088		AREA	223
	1		7089		LIT	223
OUT OF SEQUENCE'	20		7109		LIT	224
MATCH FOR THIS CARD'	22		7131		LIT	225
XXX W1 '	10		7141		LIT	225
	3		7144		LIT	225
VALID HEADER'	14		7158		LIT	226
	1		7159		LIT	226
ERROR'	10		7169		LIT	226
	1		7170		AREA	226
	1		7171		LIT	226
ING LENGTH RECORD'	19		7190		LIT	227
	3		7193		LIT	227
	3		7196		LIT	227
	3		7199		LIT	227
OF JOB'	10		7209		LIT	227
				/ H86 080		228

B

Operations Manual
101B27.100
OM-01

1. General.

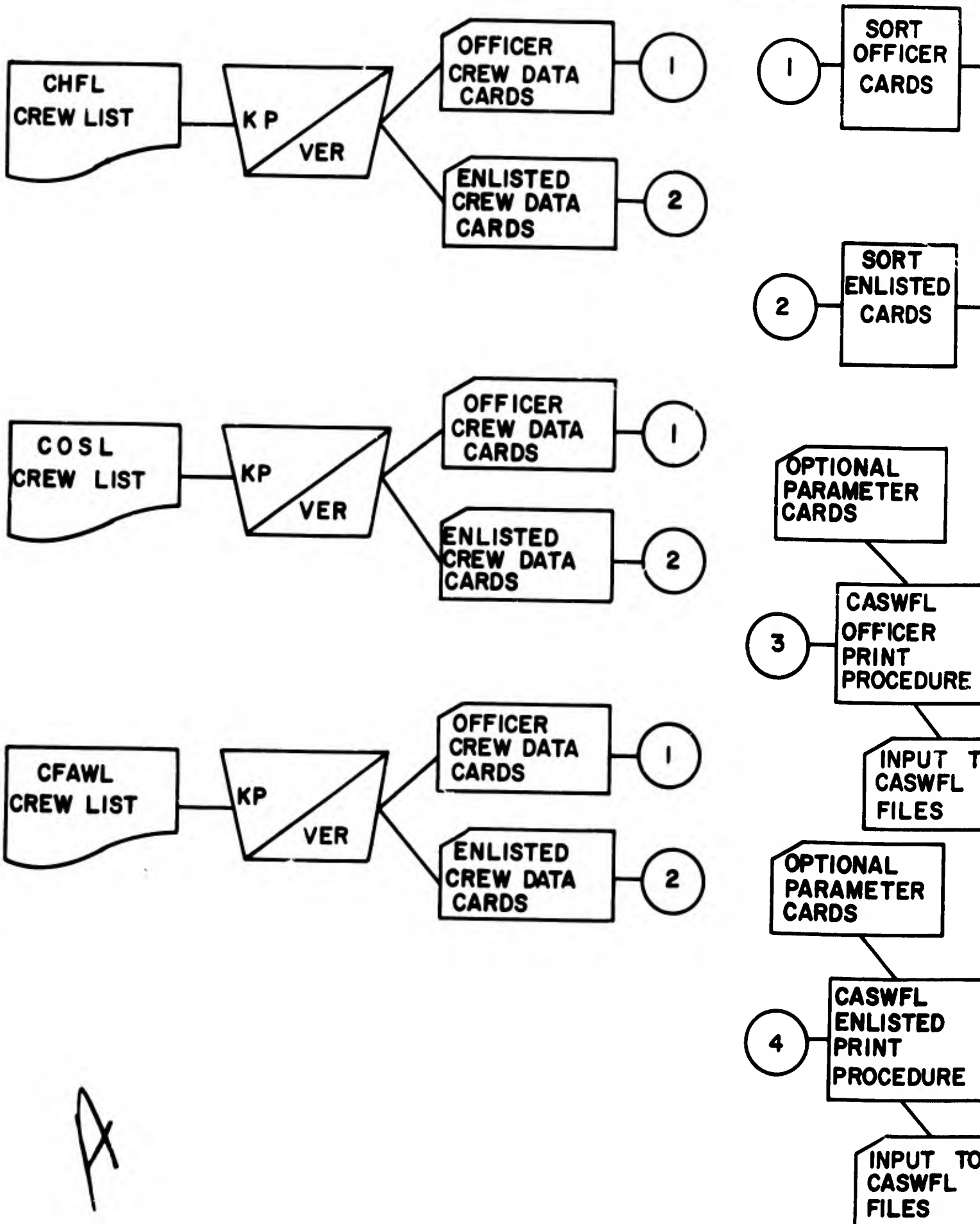
1.1 Purpose of Operations Manual. The objective of writing an Operations Manual for Project 101B27.100 (OM-01) is to provide control and operator personnel with a general description of the system and its associated environment with which they will be concerned during the performance of their duties.

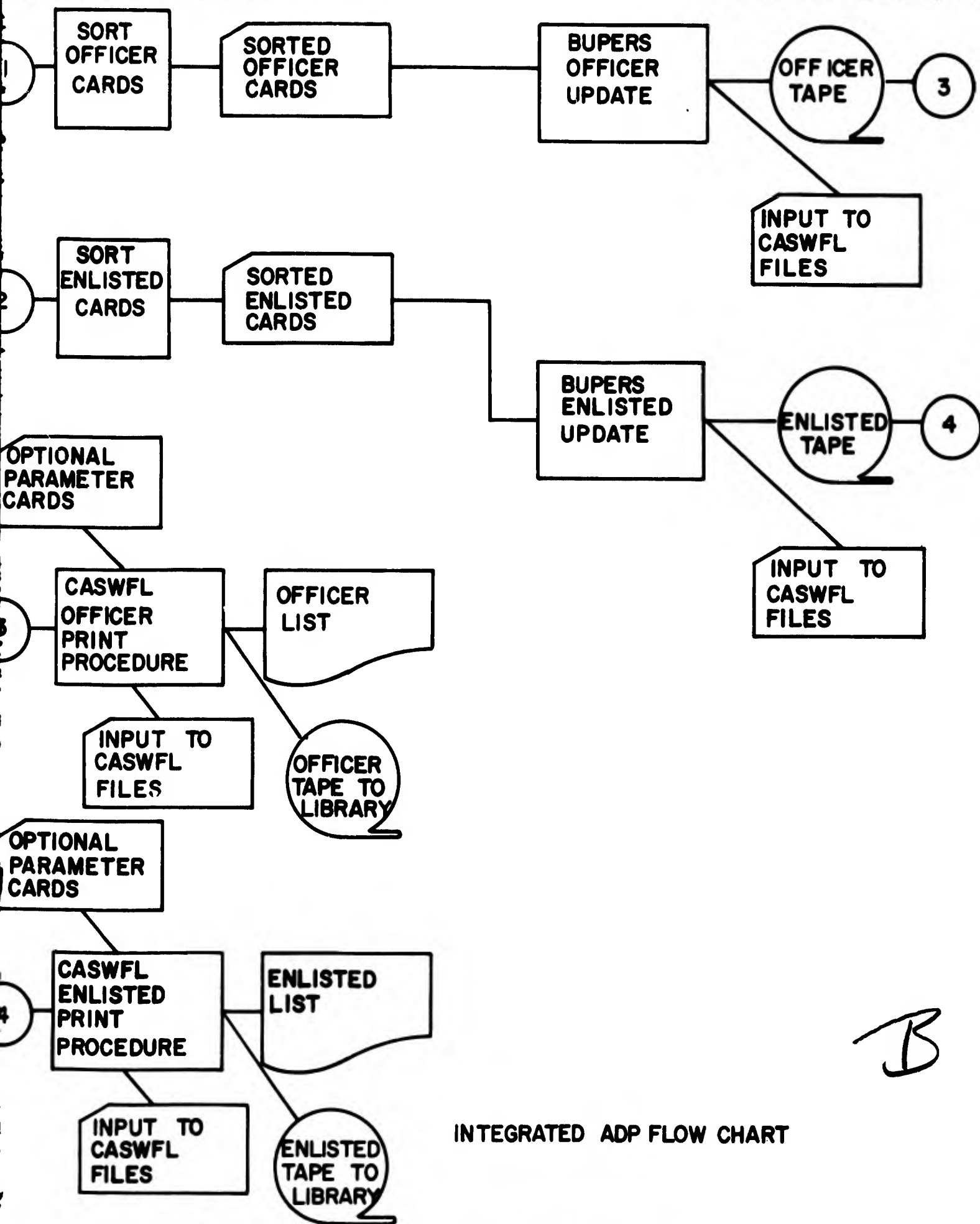
1.2 System Application. The Active Duty Enlisted/Officer Master Magnetic Tape Record Print Procedure, Project 101B27.100, is designed to acquire from BUPERS a tape file containing the Active Duty Enlisted/Officer Master Magnetic tape record for each enlisted person and officer in the commands of COMHUKFORLANT, COMFAIRWINGSLANT and COM-OCEANSYSLANT..

1.3 System Operation. See ADP Flow Chart.

1.4 Program Inventory.

- (a) Key punch and verify Crew Data Cards. Six to twelve hours per command named in paragraph 1.2.
- (b) Sort Crew Data Cards into service number sequence. Approximately 3 hours.
- (c) Forward Crew Data Cards to BUPERS.
- (d) Upon receipt of the Active Duty Enlisted/Officer Master Magnetic Tape Record files program PS-01, PS-02 and PS-03 will be run as follows:
 - (1) PS-01 will print the enlisted tape. Run time approximately 17 hours.
 - (2) PS-02 will print the Officer tape in the old format. (Tape prior to March 1968). Run time approximately 3 hours.
 - (3) PS-03 will print the Officer tape in the new format. (Tapes after March 1968). Run time approximately 3 hours.





INTEGRATED ADP FLOW CHART

B

2. System Control.

2.1 Control Requirements. Crew data cards will be prepared by the commands named in paragraph 1. 2 and sent to COMASWFORLANT. These cards will then be sorted by service number and sent to BUPERS. BUPERS will create a tape file containing the Active Duty Enlisted/Officer Master Magnetic Tape Records that match the Crew Data Cards. This file will be sent to COMASWFORLANT where a detailed list will be prepared and sent to the appropriate command. All input data records pertaining to this system will be stored by COMASWFORLANT (NOTE: Enlisted and Officer data will be kept in separate files at all times).

2.2 Control Forms. Not applicable.

2.3 Phasing (ADP). This system has three logical phases.

- (a) The preparation of the Crew Data Cards which should be accomplished within one week's time.
- (b) The processing of the Crew Data Cards by BUPERS. A minimum of two weeks should be allowed for this phase.
- (c) The detail listing of this data. If all commands are to be processed at the same time this phase will require approximately 20 hours of computer time.

2.4 Card Deck Sequence.

- (a) When selective printing is desired the card deck sequences is object program first followed by parameter cards.
- (b) When a printout of all records is desired only the object program is used.
- (c) When restarting a selective printout the card deck sequence is as in line (a).
- (d) When restarting a printout of all records the card deck sequence is object program followed by the restart card. See Figure 1.

2.5 Graphic Processing Chart (ADP). Not applicable.

2.6 Tape Retention Schedules (ADP). A minimum of two quarters.

2.7 File Query Procedures. This system has a limited query capability. Any record or records within the file may be printed without printing the rest of the file by use of parameter cards with the service number in Columns 1-7 for enlisted data and Columns 1-6 for officer data. (NOTE: Crew data cards may be used in place of parameter cards as the control fields are in the same columns).

3. Operating Procedures.

3.1 EAM Task.

(a) Key punch and verify Crew Data Cards from crew list. The format is as follows:

<u>Column</u>	<u>Enlisted Personnel</u>	<u>Column</u>	<u>Officer</u>
1-7	Service no.	1-6	File no.
8	Blank	7-38	Blank
9-13	99999	39-56	Last, first & middle name
14-29	Blank		
3-32	"INQ"	57-80	Blank
33-38	Blank		
39-56	Last, first & middle name		
57-62	Blank		
63-67	"E145*"		
68-73	999999		
74-80	Blank		

Enlisted and Officer Crew Data cards are kept separate and labeled. Forward Crew Data Cards to COMASWFORLANT, Scientific Advisory Team, Code 714.

(b) Sort Crew Data Cards.

Enlisted Crew Data Cards Col. 1-7.
Officer Crew Data Cards Col. 1-6.

Forward sorted Crew Data Cards to BUPERS with a minimum of two blank tapes on which BUPERS will create the Active Duty Enlisted/Officer Master Magnetic Tape Record file.

3.2 Equipment Configuration.

(a) EAM keypunching of crew data cards:

Three 029 keypunches (one at each command)
Three 059 verifiers (one at each command)

(b) EAM sorting of crew data cards:

One 084 sorter

(c) EDP processing at BUPERS:

Equipment configuration not applicable.

(d) EDP print of Active Duty Enlisted/Officer Master Magnetic Tape Record file:

One 1401 CPU
One 1403 printer
One 1402 card read/punch
One 7330 tape unit

3.3 EDP Tasks. There are three EDP tasks included in this system, the following instructions apply to all three tasks:

(a) Input Material.

- (1) Program 101B27.100, PD-01. Active Duty Enlisted Master Magnetic Tape Record file.
- (2) Program 101B27.100, PD-02. Old Active Duty Officer Master Magnetic Tape Record file.
- (3) Program 101B27.100, PD-03. New Active Duty Officer Master Magnetic Tape Record file.
- (4) Parameter Cards. (NOTE: The Crew Data cards may use parameter cards as the service number fields are the same).

(b) Outputs. A detailed printout of the Active Duty Enlisted/Officer Master Magnetic Tape Record file.

(c) Procedures.

(1) Setup.

- (a) Mount Active Duty Enlisted/Officer Master Magnetic Tape Record file on unit one.
- (b) Put 11 1/2 x 14 paper of the requested ply in 1403 printer.
- (c) Place object program in reader. If the option to print only those records requested by parameter cards is being utilized place parameter cards in reader after object deck.
- (d) Turn on appropriate sense switch.
 - (1) I/O always on.
 - (2) A always on.
 - (3) B on to bypass tape header check.
 - (4) C on to print all tape records with no selection.
 - (5) D on for program interrupt when program is utilizing sense switch C.
 - (6) E on for restart when program is utilizing sense switch C.
- (e) Press load button on reader.

(2) Operation.

- (a) Halts are identified by a number in the B address register and are as follows:

<u>B address register</u>	<u>Description</u>
1111	Incorrect tape header label. If wrong tape is mounted on unit one, mount correct tape and rental job. If correct tape is mounted on unit

B address register

Description

	one, but has an invalid tape header label, reload tape, turn sense switch B on and press start.
1112	End of reel. Mount next sequenced reel and press start.
1234	End of job.
3333	Job has been interrupted. Check punch hopper for restart card. Save this card for restart procedure.
4444	Input tape has been repositioned during a restart operation. Turn sense switch E off and press start to continue processing.

4. Non-Routine Operations.

- (a) Interrupt while printing all records. When it is desired to interrupt turn on sense switch D. Upon complete processing of the next record or block of records a restart card will be punched on the 1402 read/punch and the program will halt at halt 3333. Dismount input tape and output listing, save restart card.
- (b) Interrupt when print only those records selected by parameter cards. Remove unprocessed parameter cards from the 1402 read/punch. Program will halt upon completion of the record that is currently being processed.
- (c) Restarting when printing all records. Obtain the restart card that was punched at the time of interrupt. Machine setup is the same as during normal processing except place restart card after object program and turn on sense switch E.
- (d) Restart when printing only those records selected by parameter cards. Set up instructions are the same as those for normal processing except only those parameter cards which have not been printed are placed after the object deck.

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13. ABSTRACT Each section of this paper is designed to be informative at different levels; 1 The Functional Description reflects the initial analysis of the system and defines the operational capability to be developed without going into the details of each individual operation. 2 The Data Requirements Document defines the data elements used within the system 3 The System Specification is a more detailed documentation of the entire system. 4 The Program Specification describes program design so as to permit program production. Each program within the system is defined in a separate Program Specification and only information pertaining to that program and how it relates to other operations within the system is presented in these sections. Program listings are included in this section. 5 The Operations Manual documents the operating procedures necessary to operate each function within this system. Instructions are given for initiating, running, terminating, interrupting and restarting each function within the system.			

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14.

KEY WORDS

LINK A

LINK B

LINK C

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ADP

1401 Computer Program

Behavioral Research Application

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