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COST EFFECTIVENESS PROGRAM PLAN for JOINT TACTICAL COMMUNICATIONS



VOLUME III LIFE CYCLE COSTING

APPENDIX 2

DEFENSE MATERIEL SYSTEMS LIFE CYCLE COST MODEL (DMSLCCM) USERS MANUAL

MARCH 1982

USA-USN-USAF-USMC

JOINT TACTICAL COMMUNICATIONS OFFICE
FORT MONMOUTH, N.J.



JOINT TACTICAL COMMUNICATIONS OFFICE
FORT MONMOUTH, NEW JERSEY 07703

IN REPLY
REFER TO: TRI-TAC/TT- AM-PB

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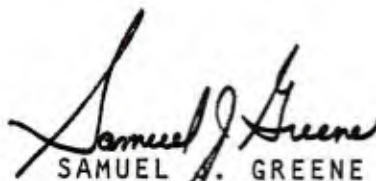
SUBJECT: Cost Effectiveness Program Plan for Joint Tactical
Communications, Vol III, Life Cycle Costing (LCC),
Appendix 2, LCC Model Users Manual

SEE DISTRIBUTION

1. Reference letter, Cost Effectiveness Program Plan for Joint Tactical Communications, Vol III, Life Cycle Costing, 20 April 1982.
2. Referenced letter forwarded copies of the new Vol III, Life Cycle Costing. This document sponsors the Defense Materiel Systems Life Cycle Cost Model (DMSLCCM) for use on TRI-TAC equipment programs. Attached as an inclosure is the final version of Appendix 2, the Model Users Manual.
3. To fully utilize the model, Appendix 3, the Data Collection Workbook is required. A draft of this document is presently being coordinated with the DoD Services/Agencies. A copy of this draft can be made available to interested users. This office can be contacted for further information. Point of Contact is Mr. Thomas Loughney, AV 992-8256 or commercial (201) 532-8256.

FOR THE DIRECTOR:

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as


SAMUEL J. GREENE
Colonel, USAF
Vice Director

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VOLUME III

APPENDIX 2

Defense Materiel Systems Life Cycle Cost Model
Users Manual

This appendix to Volume III, Life Cycle Costing,
has been prepared by the Program Budget and Analysis
Division of the TRI-TAC Office.

Questions may be directed to the following individuals:

Mr. Thomas M. Loughney
or
LTC Jerry Jeffrey
Program Budget and Analysis Division
TRI-TAC Office
Autovon 992-8256
Commercial 201-532-8256

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P R E F A C E

The Joint Tactical Communications (TRI-TAC) Office publishes the Cost Effectiveness Program Plan (CEPP) to support the acquisition management of joint tactical communications equipment. Volume III serves as TRI-TAC Office general guidance to the Services and Agencies for their preparation, tracking, and reporting of life cycle cost and Design-to-Unit-Production-Cost (DTUPC) estimates of TRI-TAC systems and equipment. This publication is Appendix 2 of Volume III.

Volume III adopted the Defense Materiel Systems Life Cycle Cost Model (DMSLCCM) for use on the TRI-TAC Program. Appendix 1 to Vol III contains a description of the DMSLCCM. Appendix 2, this document, is the Users Manual for the Model. Appendix 3 is the Data Collection Workbook for the model, and Appendix 4 presents the LCC output formats that are required by DoD1 5000.2 as modified for use on TRI-TAC programs.

This appendix contains a detailed Users Manual for the DMSLCCM. It contains all the information required to use the model with the exception of details on the construction of the input data base. The data base information can be found in Appendix 3, TTO-AM-032-81-AP3.

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INTRODUCTION

The Joint Tactical Communications Office (TRI-TAC) is the system architect for joint tactical communications equipment and systems. As such this Office is concerned with the overall management, development and acquisition of these equipment/systems. A critical aspect of the TRI-TAC mission is to ensure that cost is considered equal in importance to equipment performance and program schedules. Cost, in this sense, encompasses research and development and procurement costs as well as the cost of owning and operating the equipment during its useful life. When added together, these costs define the Life Cycle Cost (LCC) of the equipment.

As the systems architect, the TRI-TAC Office develops and controls the performance and interface specifications for the individual equipment that will be assembled by the Services to form tactical communications systems. A specific Service/Agency is tasked to develop a type of equipment and to procure it in quantities sufficient to satisfy the stated requirements of all the Services. The role of the TRI-TAC Office and of the DoD Services/Agencies is described in DoD Directive 5148.7, "The Joint Tactical Communications Program", January 1978.

Volume III addresses the problems associated with the management of cost and the cost variable in the TRI-TAC program. It also adopted the Defense Materiel Systems Life Cycle Cost Model (DMSLCCM) for use on the TRI-TAC program.

This appendix contains the Users Manual for the DMSLCCM. Extreme care has been taken in the design of the model to insure a simple man-machine interface. This has been achieved through operator prompting routines that are an integral part of the model.

The most difficult task in performing a Life Cycle Cost analysis is the collection of data, development of assumptions and the formatting of the input data base. The reader is referred to TT-AM-032-81-AP3, which is the Data Collection Workbook. It is a companion document to this appendix and has been designed as a tool to structure the data collection problem.

The model is resident on a time shared computer and can be accessed through either TELENET or TYMNET. It can be accessed by any government agency or government contractor. For an organization to access the model, a users number and password protection code are required.

Once the necessary sign on arrangements have been made, it is possible to use the model by becoming familiar with this document and the Data Collection Workbook. However, due to the versatility and size of the model it is recommended that the analysts attend a short course on its use prior to attempting any large scale analysis.

Additional details on the model can be obtained by contacting this office.

The outline for the remainder of this document is shown in the Table of Contents.

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DEFENSE MATERIEL SYSTEM LIFE CYCLE COST MODEL
FOR MIL-STD-881A WEAPON SYSTEMS
VERSION 5
OCTOBER 1981

The Defense Materiel System Life Cycle Cost Model may be executed via the Telenet or Tymnet communications link. The user must have a telephone, a modem, and a terminal to access the computer. Detailed instructions on how to use the model are outlined in the following sections.

COMMUNICATING WITH A COMPUTER¹

General

Each of the procedures used to communicate with the computer must be followed exactly. Typing accuracy is important. When something is typed in, the program must interpret it and respond to it. Since the program understands only certain commands, typing must be done with care.

Unlike some typewriters, terminals have separate keys for zero and the letter "O" and for one and the letter "l".

In general, the computer notices spaces, so spaces should be used only where needed. The computer does not process what is typed until the return or send key is pressed. This must be done at the end of each line.

Responses to the program must be typed in uppercase. If the terminal has both cases, use the CAPS LOCK key to insure that all letters will be in uppercase. The CAPS LOCK key does not affect numbers or special characters.

¹This procedure may vary somewhat, depending on the type of terminal used. For instance, modems are integrated into many terminals.

Error Correction

The system is designed for ease in correcting typing mistakes. For instance, to delete the preceding character, press the DELETE key; to delete more than one preceding character, press the key once for each character to be deleted. Pressing the CONTROL and R keys simultaneously will cause the current line to be listed for accuracy without transmitting the data. To delete the entire current line, simultaneously press the CONTROL and X keys. The terminal will print 'Deleted' and return. In any case, DO NOT use the BACKSPACE key. The computer will accept each backspace as a new character and will not erase the old ones.

Interrupt

To interrupt the model during an LCC run, press the NULL, ATTN, INTERRUPT, or BREAK key. If none of these is available, press the CONTROL, SHIFT, and P keys simultaneously. If the BREAK key is used, press it only briefly. On some terminals, the user may have to press the BRK-RLS (Break-Release) key after pressing BREAK to communicate with the computer again. If BREAK remains on too long, the terminal may sign off. Note that when the computer is interrupted this way, it will terminate the LCCM run. In order to continue work with the model, the RUN command must be typed again and any data not saved in a data file will have to be re-entered.

Catalog

To obtain a list of the data files available for use with the LCCM, type CAT (for catalog). The CAT command is a system command, as opposed to a program command. As such, it may not be issued during an LCCM execution (i.e., after the RUN command and before the computer has printed STOP). It may be issued at any other time that the user is signed on. Issuance of the CAT command will cause the computer to list all of the files associated with the user number with which the terminal is signed on. It will NOT list any Passwords. Not all of these files are LCCM data files. Those files that are LCCM data files begin with the letters "C D E I P R S X Y and Z". These initial letters are added to the user

created data file name by the model. They identify the file as data that can be read by the LCCM. When requesting the use of a data file during an LCCM execution, DO NOT type in any of the leading letters.

Accessing the Model via Telenet

1. Establish a telephone connection with Telenet.
 - o The terminal modem should be on with the terminal in a LOCAL or OFFLINE status.
 - o After dialing into Telenet, a high pitched tone will be received.
 - o Connect the receiver to the modem; switch the terminal status to DATA, REMOTE, or COMM; and press the SEND or RETURN key twice.

TELENET
202 4P

Telenet acknowledges connection

TERMINAL=B3

2. Enter terminal type

@C 60366

3. Enter code for the computer

603 66 CONNECTED

Connection is acknowledged

USER NUMBER-- _____

4. Enter user number

<-- PASSWORD

5. Enter user password

DEFENSE RESEARCH & DEVELOPMENT NETWORK

LINE 1/1205 ON AT 14:29 17 NOV 81 1 USERS

Signon message from the computer

Prime Time until 21:00 E.S.T. Uninterrupted Non Prime Time
21:00-24:00. System not available 01:00-08:00 tomorrow.

/BRI/SYS FORTRAN/MAX 64K CORE/OLD *GRC00000:VERSION5/

*RUN

6. Enter RUN command

DEFENSE MATERIEL SYSTEM LIFE CYCLE COST MODEL
FOR MIL-STD 881A WEAPON SYSTEMS
VERSION 5: OCTOBER 1981
11/17/81

LCCM begins execution and advises the
user of the Version number and date.

NOTE: All user responses are underscored.

Main User Options

Each module in Version 5 of the LCCM provides explicit instructions for creating data files, getting existing data files, and editing data to update the data base or perform sensitivity/trade-off analyses. Below is a list of the main user options available after the model begins to run.

*RUN

DEFENSE MATERIEL SYSTEM LIFE CYCLE COST MODEL
FOR MIL-STD 881A WEAPON SYSTEMS
VERSION 5: OCTOBER 1981
11/17/81

Main user options are:

To begin, you must GET or CREate a data file

The following options can be used once you have a data file:

EDIt: change values in an existing data file
LISt values in existing data file
DELIvery schedule and rates: enter or edit
TABLe of organization: enter or edit
NOTepad: enter or edit user notes for reports
INFLate: enter or edit rates, change base years, use in reports
ANNUal spending rates: enter or edit
REPORt writer
SAVe your data for future use
UNSAve to remove an existing data file
HELp to get this list again
DONE to quit
CHARGE to get your computer usage for this session
PERSONnel cost factors: enter or edit. (this is password protected)

Creating a Data Base When no Data Files Exist

CREate or GET ? CRE

GET or CREate your system inputs for R&D and Production?? CRE

Enter the fiscal year basis for your system inputs (YY)? 80

Type of system: AIRcraft, ELEctronics, MISSile, ORDNance, SHIP,
SPACE or SURface vehicle? ELE

PLEASE NAME YOUR SYSTEM WITH 10 OR FEWER CHARACTERS ? SAMPLE

100 R&D?
110 D&V?
111 CONT?
111.12,111.13,111.14? 148000 210000 139000
111.15 DATA? 127700
111.16? 0
111.17? 189000
111.18 OTHER? 0
112 GOVT?
112.12?
112.12.1,112.12.2,112.12.3? 0 0 58000
112.13?
112.13.1,112.13.2,112.13.3? 112000 35000 42000
112.14? 89000
112.15? 0
112.16? 0
112.17? 0
120 FSD?
121 CONT?

1. CREate a new data file is selected

2. CREate system inputs is selected

3. Fiscal year 1980 is entered

4. ELEctronic weapon system is selected

5. System is named "SAMPLE"

6. R&D system inputs for "SAMPLE" are requested.

Note:

System inputs may be entered at varying levels of detail. To enter detail for lower level cost elements, a carriage return (blank line) must be entered (e.g., the carriage return for 100 R&D? caused entries to be requested at the next lower level). A "0" (zero) or other value will cause the model to skip the lower level entries.

Lower level entries may be entered using the editor if a higher level entry has been made.

121.12?
 121.12.1,121.12.2? 9500 11500
 121.13?
 121.13.1,121.13.2,121.13.3? 145000 66000 49000
 121.14? 72000
 121.15? 68000
 121.16? 0
 121.17? 185000
 121.18? 0
 122 GOVT?
 122.12?
 122.12.1,122.12.2,122.12.3? 0 0 88000
 122.13?
 122.13.1,122.13.2? 61000 29000
 122.13.3? 55500
 122.14? 114800
 122.15? 0
 122.16? 0
 122.17? 0
 200 PROD?
 210 PROD (N-R)?
 211 CONT (N-R)?
 211.12 SYS PROJ MGT?
 211.12.1,211.12.2? 119000 125600
 211.13 TRAINING?
 211.13.1,211.13.2? 99000 38000
 211.13.3?
 211.13.3.1,211.13.3.2? 0 38000 78000
 211.14 PROD STARTUP? 189000
 211.15 DATA? 245000
 211.16 INIT SPARES? 0
 211.17 ST&ES? 122000
 211.18 SOFTWARE CTR? 22000
 211.19 CONT TECH SUP? 43000
 211.20 OTHER? 0
 212 GOVT (N-R)?

7. Production system inputs are requested

Note the response of the model to carriage returns (blank lines). The data entry sheets show what action the model will take in response to carriage returns.

212.12 INIT TRAINING? 65000
 212.13 ST&E?
 212.13.1? 73000
 212.13.2?
 212.13.2.1,212.13.2.2,212.13.2.3? 0 54000 42500
 212.14 TEST SITE ACT? 38500
 212.15 PROJ MGT?
 212.15.1,212.15.2,212.15.3? 0 0 45900
 212.16 SOFTWARE CTR? 0
 212.17 INV MGT? 0
 212.18 IND FAC? 0
 212.19 OTHER? 0
 220 PROD (R)?
 221 CONT (R)? 310000
 222 GOVT (R)?
 222.12 QUALITY CTRL? 119000
 222.13 TRANSPORTATION? 48900
 222.14 OP SITE ACT? 91000
 222.15 TECH ORDERS & MAN? 0
 222.16 SUP ENG? 0
 222.17 INIT TRAINING? 0
 222.18 ST&E? 67000
 222.19 INIT SPARES? 0
 222.20 OTHER? 0
 01 OPR FAC? 192000
 02,03,04,05? 0 0 0
 06,07? 0 0
 08 OP TRANSPORTATION? 12590
 015 EQUIP LEASEHOLDS? 0
 016 OP EQUIP LEASEHOLDS? 0
 017 OTHER? 0
 022 ORG MAINT FAC? 22000
 026 INT MAINT FAC? 310000
 030 MAINT S/W CTR? 33900
 031 CONT S/W MAINT? 15700
 034 M&D S/W CENTER? 0

8. O&S system cost elements and cost factors are requested

035 CONTRACT M&D S/W MAINT? 11600
 036,037? 0 0
 038 CONT SVCS? 8000
 039? 4
 040 SUP FAC? 0
 041 ORG SUP? 0
 043 INT SUP? 0
 045 DEP SUP? 3000
 048 BONDED STORE? 0
 051 TECH DATA REV? 33500
 054,055,056,057? 2 0 3 0
 058 OTHER LOG SUPT? 0
 059,060,061,062? 0 0 0 0

Which assumption file: DOD, ARM, AF, NAV, MC? DOD

THERE ARE NO VALUES IN YOUR ASSUMPTION DATA BASE.
 YOU MUST ENTER THEM AS INPUTS

WHAT IS THE FISCAL YEAR OF YOUR ASSUMPTIONS ? 80

A 1,A 2,A 3,A 4	>>>>?	10 2 250 250
A 5,A 6,A 7,A 8	>>>>?	300 300 350 .001
A 9,A 10,A 11,A 12	>>>>?	30 30 3000 3000
A 13,A 14,A 15,A 16	>>>>?	3000 .01 .001 0
A 17,A 18,A 19,A 20	>>>>?	0 0 0 830
A 21,A 22,A 23,A 24	>>>>?	1653 .05 .02 .01
A 25,A 26,A 27,A 28	>>>>?	.002 0 0 .1
A 29,A 30,A 31,A 32	>>>>?	10 30 30 30
A 33,A 34,A 35,A 36	>>>>?	30 180 180 180

SAVE system inputs entered so far, or CONTINUE?? SAV

File name (FILEABC or FILEABC,PASSWORD)

NAME: up to seven letters. PASSWORD up to eight letters.
 ?SAMFILE

SYSTEM DATA WRITTEN FOR SAMFILE

SAV system inputs entered so far, or CONTINUE?? CON

9. Assumption data file is selected
 Warning: There are no approved assumption files at present.

10. Fiscal year for assumption inputs is entered

11. Data values for system assumptions are entered

12. SAVE system inputs is selected

13. File name is requested and entered
 data file is written

14. CONTINUE to enter data

How many WBS items do you want to enter? 6

Name? MASS-STORAGE-DEVICE

Enter your data in the following order:

Separate entries with a comma or a space
SERVICE, EQI-GROUP, NSN/MPN, WBS #, GFE, UPCBY
? DOD,1,MSDI406Z,11.4.1,N,1979

Carriage return to make the entries for D&V
Hit any other key to skip these entries
?

D&V #	1,2,3	>>>?	1979	4	4
D&V #	4	>>>?			
D&V #	5	>>>?	0		
D&V #	6	>>>?			
D&V #	7,8,9,10	>>>?	23000	15000	6000 12000
D&V #	11,12,13	>>>?	6500	1900	0
D&V #	14	>>>?	31000		
D&V #	15	>>>?	26000		
D&V #	22	>>>?			
D&V #	23,24,25,26	>>>?	4950	3100	6200 8000
D&V #	27	>>>?	0		
D&V #	28	>>>?	0		
D&V #	29	>>>?	0		

15. Number of WBS items to be entered is requested

16. Name of first WBS item is entered

17. Header data is requested and entered

Carriage return (blank line) instructs the model to request entries for D&V

18. D&V entries for WBS item #1 are entered. Carriage return for item 4 causes the model to ask for the remaining items. If a value were entered for any of the blank lines (4,6,22) the model would skip details. Note the entry for item 15 caused the model to skip 16-21. This control sequence is shown on the data entry worksheets.

Carriage return to make the entries for FSD
Hit any other key to skip these entries
?

FSD # 1,2,3 >>>? 1979 4 4
FSD # 4 >>>?
FSD # 5 >>>? 0
FSD # 6 >>>?
FSD # 7,8,9,10 >>>? 20000 11000 8000 2500
FSD # 11,12,13 >>>? 2600 5100 0
FSD # 14 >>>? 25000
FSD # 15 >>>? 31000
FSD # 22 >>>? 11000
FSD # 28 >>>? 0
FSD # 29 >>>? 100

19. FSD entries for the WBS item #1 are entered

Carriage return to make the entries for PROD
Hit any other key to skip these entries
?

PROD # 1,2,3 >>>? 1979 3 3
PROD # 4 >>>?
PROD # 5,6,7,8 >>>? 0 2200 0 1200
PROD # 9,10,11,12 >>>? 1150 1155 0 1100
PROD # 13,14,15 >>>? 1200 1100 12
PROD # 16 >>>?
PROD # 17,18,19,20 >>>? 0 1250 160 175
PROD # 21,22 >>>? 150 0
PROD # 23,24 >>>? 1450 0
PROD # 25 >>>? 1800

20. Production entries for WBS item #1 are entered

Carriage return to make the entries for DTUPC
Hit any other key to skip these entries
?

DTUPC # 5, 6, 7, 8 >>>? 1979 10 45900 80
DTUPC # 9, 10, 11, 12 >>>? .9 .95 1 150
DTUPC # 13, 14, 15, 16 >>>? 3 1985 10 15
DTUPC # 17, 18, 19, 20 >>>? 0 0 0 .02

21. DTUPC data for WBS item #1 are entered. The
model skips items 1-4 because the WBS item is not
GFE.

Carriage return to make the entries for EQUIP
Hit any other key to skip these entries
?

EQUIP #	1, 2, 3, 4	>>>?	130 0960 0 55
EQUIP #	5, 6, 7, 8	>>>?	2 12 21 .05
EQUIP #	9, 10, 11, 12	>>>?	1 0 0 0
EQUIP #	13, 14, 15, 16	>>>?	0 .02 2 .21
EQUIP #	17, 18, 19, 20	>>>?	.07 0 .25 .75
EQUIP #	21, 22, 23, 24	>>>?	0 7810 .02 .2
EQUIP #	25, 26, 27, 28	>>>?	.5 .5 .5 .5
EQUIP #	29, 30, 31, 32	>>>?	.5 .75 52 0
EQUIP #	33, 34	>>>?	0 0

22. Equipment data for WBS item #1 are entered

Carriage return to make the entries for MAINT
Hit any other key to skip these entries
?

Enter your annual mod cost factor or carriage return to skip?

MAINT #	2, 3, 4, 5	>>>?	0 0 0 0
MAINT #	6, 7, 8, 9	>>>?	0 0 0 32
MAINT #	10, 11, 12, 13	>>>?	.08 .01 .01 .01
MAINT #	14, 15, 16, 17	>>>?	.01 .01 .01 0
MAINT #	18, 19, 20, 21	>>>?	1 .5 0 0
MAINT #	22, 23, 24, 25	>>>?	0 0 .5 0
MAINT #	26, 27, 28, 29	>>>?	.2 0 0 0
MAINT #	30, 31, 32, 33	>>>?	0 .8 1.5 2
MAINT #	34, 35, 36, 37	>>>?	0 0 0 0
MAINT #	38, 39, 40, 41	>>>?	1 .01 .01 0
MAINT #	42, 43, 44, 45	>>>?	0 0 0 .01

23. Maintenance data for WBS item #1 are entered

Is there another WBS item in the data base you want to copy? N 24. Data for WBS item #2 is to be entered

Name? MASS-MEMORY

25. WBS item #2 is named

Enter your data in the following order:
Separate entries with a comma or a space
SERVICE, EQI-GROUP, NSN/MPN, WBS #, GFE, UPCBY
? DOD,1,MMI825P,11.4.2,N,1979

26. Header information for WBS item #2
is entered

Is the D&V data for this WBS item the same as another WBS item? N 27. D&V data for WBS item #2 is entered

Carriage return to make the entries for D&V
Hit any other key to skip these entries
?

D&V #	1,2,3	>>>>?	1979	4	4
D&V #	4	>>>>?			
D&V #	5	>>>>?	0		
D&V #	6	>>>>?			
D&V #	7,8,9,10	>>>>?	1800	9000	4000 3000
D&V #	11,12,13	>>>>?	5500	11000	500
D&V #	14	>>>>?	13000		
D&V #	15	>>>>?			
D&V #	16,17,18,19	>>>>?	2000	22000	5000 1900
D&V #	20,21	>>>>?	1000	2200	
D&V #	22	>>>>?	18000		
D&V #	28	>>>>?	0		
D&V #	29	>>>>?	0		

28. Carriage return for D&V (6) is
entered; the model will request entries
for its subelements

Is the FSD data for this WBS item the same as another WBS item? N

Carriage return to make the entries for FSD
Hit any other key to skip these entries
?

```
FSD # 1,2,3 >>>>? 1979 4 4
FSD # 4 >>>>?
FSD # 5 >>>>? 0
FSD # 6 >>>>?
FSD # 7,8,9,10 >>>>? 9000 6000 1969 2156
FSD # 11,12,13 >>>>? 4823 3128 0
FSD # 14 >>>>? 6982
FSD # 15 >>>>?
FSD # 16,17,18,19 >>>>? 0 1429 2834 3500
FSD # 20,21 >>>>? 500 0
FSD # 22 >>>>? 17000
FSD # 28 >>>>? 0
FSD # 29 >>>>? 0
```

29. FSD inputs for WBS item #2 are
entered at varying levels of detail

Is the PROD data for this WBS item the same as another WBS item? N

Carriage return to make the entries for PROD
Hit any other key to skip these entries
?

```
PROD # 1,2,3 >>>>? 1979 3 3
PROD # 4 >>>>?
PROD # 5,6,7,8 >>>>? 0 1600 0 1100
PROD # 9,10,11,12 >>>>? 180 1159 0 1100
PROD # 13,14,15 >>>>? 1250 1100 10
PROD # 16 >>>>? 15000
PROD # 23,24 >>>>? 16000 0
PROD # 25 >>>>? 3000
```

30. Production entries for WBS
item #2 are entered

Is the DTUPC data for this WBS item the same as another WBS item? N

Carriage return to make the entries for DTUPC
Hit any other key to skip these entries
?

DTUPC #	5, 6, 7, 8	>>>?	1979 10 98000 80
DTUPC #	9, 10, 11, 12	>>>?	<u>9 95 1 130</u>
DTUPC #	13, 14, 15, 16	>>>?	<u>3 1985 9 15</u>
DTUPC #	17, 18, 19, 20	>>>?	<u>0 600 2 .05</u>

31. DTUPC data for WBS item #2 are entered

Is the EQUIP data for this WBS item the same as another WBS item? Y

Enter the WBS item line number for the item to copy
(not the WBS number)? 1

32. The equipment data for WBS item #2 are
copied from WBS item #1

Is the MAINT data for this WBS item the same as another WBS item? N

Carriage return to make the entries for MAINT
Hit any other key to skip these entries
?

Enter your annual mod cost factor or carriage return to skip?

MAINT #	2, 3, 4, 5	>>>?	0 0 0 0
MAINT #	6, 7, 8, 9	>>>?	<u>0 0 0 32</u>
MAINT #	10, 11, 12, 13	>>>?	<u>.08 .001 .001 .001</u>
MAINT #	14, 15, 16, 17	>>>?	<u>.001 .001 .001 0</u>
MAINT #	18, 19, 20, 21	>>>?	<u>1 .5 0 0</u>
MAINT #	22, 23, 24, 25	>>>?	<u>0 0 .5 0</u>
MAINT #	26, 27, 28, 29	>>>?	<u>.2 0 0 0</u>
MAINT #	30, 31, 32, 33	>>>?	<u>0 .8 1 .5 2</u>
MAINT #	34, 35, 36, 37	>>>?	<u>0 0 0 0</u>
MAINT #	38, 39, 40, 41	>>>?	<u>1 .01 .01 0</u>
MAINT #	42, 43, 44, 45	>>>?	<u>0 0 0 .01</u>

33. Maintenance data for WBS item #2 are
entered

Is there another WBS item in the data base you want to copy? N

Name? MICRO-COMPUTER

Enter your data in the following order:

Separate entries with a comma or a space
SERVICE, EQI-GROUP, NSN/MPN, WBS #, GFE, UPCBY
? DOD,1,MC29356Q,11.4.3,N,1979

34. Name and header data is entered for WBS
item #3

Is the D&V data for this WBS item the same as another WBS item? N

Carriage return to make the entries for D&V

Hit any other key to skip these entries
?

D&V # 1,2,3 >>>>? 1979 4 4
D&V # 4 >>>>?
D&V # 5 >>>>? 0
D&V # 6 >>>>?
D&V # 7,8,9,10 >>>>? 20000 6000 4000 9000
D&V # 11,12,13 >>>>? 7000 10000 0
D&V # 14 >>>>? 15000
D&V # 15 >>>>? 24000
D&V # 22 >>>>? 23000
D&V # 28 >>>>? 7000
D&V # 29 >>>>? 500

35. D&V data for WBS item #3 are entered

Is the FSD data for this WBS item the same as another WBS item? N

Carriage return to make the entries for FSD
Hit any other key to skip these entries
?

FSD # 1,2,3 >>>>? 1979 4 4
FSD # 4 >>>>?
FSD # 5 >>>>? 0
FSD # 6 >>>>?
FSD # 7,8,9,10 >>>>? 16000 5500 3250 1690
FSD # 11,12,13 >>>>? 2500 1700 0
FSD # 14 >>>>? 13690
FSD # 15 >>>>? 18000
FSD # 22 >>>>? 21000
FSD # 28 >>>>? 0
FSD # 29 >>>>? 0

36. FSD data for WBS item #3 are entered

Is the PROD data for this WBS item the same as another WBS item? N

Carriage return to make the entries for PROD
Hit any other key to skip these entries
?

PROD # 1,2,3 >>>>? 1979 3 3
PROD # 4 >>>>?
PROD # 5,6,7,8 >>>>? 0 1500 0 1100
PROD # 9,10,11,12 >>>>? 180 1150 0 1100
PROD # 13,14,15 >>>>? 1250 1150
PROD # 13,14,15 >>>>? 1250 1150 10
PROD # 16 >>>>? 1300
PROD # 23,24 >>>>? 1990 0
PROD # 25 >>>>? 3000

37. Production data for WBS item #3 are entered

Is the DTUPC data for this WBS item the same as another WBS item? N

Carriage return to make the entries for DTUPC
Hit any other key to skip these entries
?

DTUPC # 5, 6, 7, 8 >>>>? 1979 10 119000 80
DTUPC # 9, 10, 11, 12 >>>>? 9.95 1 125 3 1985
DTUPC # 13, 14, 15, 16 >>>>? 3 1985 9 15
DTUPC # 17, 18, 19, 20 >>>>? 0 0 0 .03

38. DTUPC data for WBS item #3 are entered

Is the EQUIP data for this WBS item the same as another WBS item? N

Carriage return to make the entries for EQUIP
Hit any other key to skip these entries
?

EQUIP # 1, 2, 3, 4 >>>>? 115 960 0 32
EQUIP # 5, 6, 7, 8 >>>>? 2 12 33 .05
EQUIP # 9, 10, 11, 12 >>>>? 1 0 0 0
EQUIP # 13, 14, 15, 16 >>>>? 0 .02 2 .21
EQUIP # 17, 18, 19, 20 >>>>? .07 0 .25 .75
EQUIP # 21, 22, 23, 24 >>>>? 0 2827 .01 .3
EQUIP # 25, 26, 27, 28 >>>>? .6 .6 .6 .6
EQUIP # 29, 30, 31, 32 >>>>? .6 .8 40 80
EQUIP # 33, 34 >>>>? 80 80

39. Equipment data for WBS item #3 are entered

Is the MAINT data for this WBS item the same as another WBS item? Y

Enter the WBS item line number for the item to copy
(not the WBS number)? 2

40. Maintenance data for WBS item #3 are copied from WBS item #2

Is there another WBS item in the data base you want to copy? N

Name? CONTROL-PANEL

Enter your data in the following order:

Separate entries with a comma or a space

SERVICE, EQI-GROUP, NSN/MPN, WBS #, GFE, UPCBY

? DOD,2,CP60954T,11.3,N,1979

41. Name and header data are entered for WBS item #4

Is the D&V data for this WBS item the same as another WBS item? N

Carriage return to make the entries for D&V

Hit any other key to skip these entries
?

D&V # 1,2,3 >>>>? 1979 4 4

D&V # 4 >>>>?

D&V # 5 >>>>? 0

D&V # 6 >>>>?

D&V # 7,8,9,10 >>>>? 5000 1000 5500 3000

D&V # 11,12,13 >>>>? 2000 1200 0

D&V # 14 >>>>? 9000 1100

D&V # 15 >>>>? 11000

D&V # 22 >>>>?

D&V # 23,24,25,26 >>>>? 3000 1500 1800 3500

D&V # 27 >>>>? 0

D&V # 28 >>>>? 0

D&V # 29 >>>>? 0

42. D&V data are entered for WBS item #4

Is the FSD data for this WBS item the same as another WBS item? N

Carriage return to make the entries for FSD
Hit any other key to skip these entries
?

```
FSD # 1,2,3 >>>>? 1979 4 4
FSD # 4 >>>>?
FSD # 5 >>>>? 0
FSD # 6 >>>>? 19460
FSD # 14 >>>>? 7000
FSD # 15 >>>>? 9600
FSD # 22 >>>>?
FSD # 23,24,25,26 >>>>? 1500 900 1800 2000
FSD # 27 >>>>? 0
FSD # 28 >>>>? 0
FSD # 29 >>>>? 0
```

43. FSD data for WBS item #4 are entered

Is the PROD data for this WBS item the same as another WBS item? N

Carriage return to make the entries for PROD
Hit any other key to skip these entries
?

```
PROD # 1,2,3 >>>>? 1979 3 3
PROD # 4 >>>>?
PROD # 5,6,7,8 >>>>? 0 1850 0 1100
PROD # 9,10,11,12 >>>>? 180 1150 0 1100
PROD # 13,14,15 >>>>? 1250 1100 10
PROD # 16 >>>>? 6700
PROD # 23,24 >>>>? 980 0
PROD # 25 >>>>? 2000
```

44. Production data for WBS item #4 are entered

Is the DTUPC data for this WBS item the same as another WBS item? N

Carriage return to make the entries for DTUPC
Hit any other key to skip these entries
?

DTUPC # 5, 6, 7, 8 >>>>? 1979 8 30000 80
DTUPC # 9, 10, 11, 12 >>>>? .9 .95 1 120
DTUPC # 13, 14, 15, 16 >>>>? 2 1985 8 15
DTUPC # 17, 18, 19, 20 >>>>? 0 0 0 .01

45. DTUPC data for WBS item #4 are entered

Is the EQUIP data for this WBS item the same as another WBS item? Y

46. Equipment and maintenance data are copied from WBS item #3

Enter the WBS item line number for the item to copy
(not the WBS number)? 3

Is the MAINT data for this WBS item the same as another WBS item? Y

Enter the WBS item line number for the item to copy
(not the WBS number)? 3

Is there another WBS item in the data base you want to copy? N

Name? COMPUTER-PROGRAMS

47. Name and header information is entered for WBS item #5

Enter your data in the following order:
Separate entries with a comma or a space
SERVICE, EQI-GROUP, NSN/MPN, WBS #, GFE, UPCBY
? DOD,4,000,11.5,N,1979

Is the D&V data for this WBS item the same as another WBS item? N

Carriage return to make the entries for D&V
Hit any other key to skip these entries
?

D&V # 1,2,3 >>>>? 1979 4 4
D&V # 4 >>>>? 27500
D&V # 29 >>>>? 0

48. D&V data for WBS item #5 are entered at the highest level of detail

Is the FSD data for this WBS item the same as another WBS item? N

Carriage return to make the entries for FSD
Hit any other key to skip these entries
?

FSD # 1,2,3 >>>>? 1979 4 4
FSD # 4 >>>>? 15000
FSD # 29 >>>>? 250

49. FSD data for WBS item #5 are entered at the highest level of detail. The model skips to FSD 29 automatically.

Is the PROD data for this WBS item the same as another WBS item? N

Carriage return to make the entries for PROD
Hit any other key to skip these entries
?

PROD # 1,2,3 >>>>? 1979 3 3
PROD # 4 >>>>? 11000
PROD # 25 >>>>? 2000

50. Production data for WBS item #5 are entered at the highest level of detail

Is the DTUPC data for this WBS item the same as another WBS item? N

Carriage return to make the entries for DTUPC
Hit any other key to skip these entries
?

DTUPC # 5, 6, 7, 8 >>>>? 1979 8 62000 1
DTUPC # 9, 10, 11, 12 >>>>? .9 .95 1 1
DTUPC # 13, 14, 15, 16 >>>>? 0 1985 8 .1
DTUPC # 17, 18, 19, 20 >>>>? 0 0 0 0

51. DTUPC data for WBS item #5 are entered

Is the EQUIP data for this WBS item the same as another WBS item? N

Carriage return to make the entries for EQUIP

Hit any other key to skip these entries

? /

52. Skip entries for equipment data

Is the MAINT data for this WBS item the same as another WBS item? N

Carriage return to make the entries for MAINT

Hit any other key to skip these entries

? /

53. Skip entries for maintenance data

Is there another WBS item in the data base you want to copy? N

Name? SHELTER

Enter your data in the following order:

Separate entries with a comma or a space

SERVICE, EQI-GROUP, NSN/MPN, WBS #, GFE, UPCBY

? DOD,3,SH99246S,11.1,Y,1979

54. WBS item #6 is named and header #
information entered. Note: D&V, FSD,
and Production data are not requested for
GFE items

Is the DTUPC data for this WBS item the same as another WBS item? N

Carriage return to make the entries for DTUPC

Hit any other key to skip these entries

?

DTUPC # 1, 2, 3, 4 >>>? 1 1 1 1

DTUPC # 7 >>>? 17600

55. DTUPC data for GFE items are requested

Is the EQUIP data for this WBS item the same as another WBS item? N

Carriage return to make the entries for EQUIP
Hit any other key to skip these entries
?

EQUIP #	1,	2,	3,	4	>>>>?	125	8760	0	0
EQUIP #	5,	6,	7,	8	>>>>?	0	0	0	.05
EQUIP #	9,	10,	11,	12	>>>>?	0	0	0	0
EQUIP #	13,	14,	15,	16	>>>>?	0	0	0	0
EQUIP #	17,	18,	19,	20	>>>>?	0	0	0	0
EQUIP #	21,	22,	23,	24	>>>>?	0	8800	0	.5
EQUIP #	25,	26,	27,	28	>>>>?	0	0	0	0
EQUIP #	29,	30,	31,	32	>>>>?	0	0	60	0
EQUIP #	33,	34			>>>>?	0	0		

56. Equipment data for WBS item #6 is entered

Is the MAINT data for this WBS item the same as another WBS item? N

Carriage return to make the entries for MAINT
Hit any other key to skip these entries
?

Enter your annual mod cost factor or carriage return to skip? .04

MAINT #	7,	8,	9,	10	>>>>?	0	0	0	0
MAINT #	11,	12,	13,	14	>>>>?	0	0	0	0
MAINT #	15,	16,	17,	18	>>>>?	0	0	0	.5
MAINT #	19,	20,	21,	22	>>>>?	0	0	0	.5
MAINT #	23,	24,	25,	26	>>>>?	0	0	.7	0
MAINT #	27,	28,	29,	30	>>>>?	0	0	.3	0
MAINT #	31,	32,	33,	34	>>>>?	0	1.5	0	0
MAINT #	35,	36,	37,	38	>>>>?	0	0	2.5	0
MAINT #	39,	40,	41,	42	>>>>?	0	0	0	0
MAINT #	43,	44,	45		>>>>?	0	.02	0	

57. Maintenance data for WBS item #6 is entered

SAVE WBS inputs entered so far, or CONTINUE? SAV

File name (FILEABC or FILEABC,PASSWORD)
NAME: up to seven letters. PASSWORD up to eight letters.
? SAMFILE

WBS DATA WRITTEN FOR SAMFILE

SAVE WBS inputs entered so far, or CONTINUE? CON

58. SAVE WBS inputs is selected

59. File is named "SAMFILE"

The model advises that data is written

60. CONTINUE is selected. It is possible to create as many new data bases as desired at this point by entering SAV and the new data base name. Note: Following system and WBS inputs the model automatically enters the system/WBS editor.

61. WBS editor is selected

GET, SAVE, HELp, array address, header name, or RETURN? HEL

To change specific data elements
Enter the array address as follows:

Dnumber to change a D&V element
Fnumber to change a FSD element
Pnumber to change a Production element
Dnumber to change a DTUPC element
Enumber to change an Equipment element
Mnumber to change a Maintenance element

D12 would permit you to change the 12th element in the D&V array

Instructions for editing WBS item data
(Continued on next page)

EDITing the Work Breakdown Structure Data Base

EDIT: SYStem data , ASSumptions, sysNAME, WBS data , ADD wbs,
DELeTe wbs, MERge wbs files, LIST, or RETURN to main.
? WBS

To change header information:

NAME to change the WBS item name
SERVICE to change a WBS item SERVICE ASSIGNMENT
GROUP to change a WBS item EQUIP-PERSONNEL GROUP NUMBER
NSN to change a WBS item NSN/MPN
WBS to change a WBS NUMBER
GFE to change the GFE flag for a WBS item
DATE to change the UPC BASE YEAR for a WBS item

Other options are:

GET to get a new WBS item DATA BASE
SAVE to save a WBS item DATA BASE
HELP to reprint these instructions
RETURN to return to the calling program

- | | |
|---|---|
| GET, SAVE, HELP, array address, header name, or RETURN? <u>E1</u> | 63. Equipment element #1 is selected |
| WHICH WBS item: ALL, EACH, +, =, or line #? <u>2</u> | 64. WBS line item #2 is to be changed |
| E 1 = 130.000 , NEW VALUE=? <u>110</u> | 65. Old value is provided; new value is entered |
| GEI, SAVE, HELP, array address, header name, or RETURN? <u>E1</u> | 66. Equipment element #1 is again selected |
| WHICH WBS item: ALL, EACH, +, =, or line #? <u>4</u> | 67. WBS item #4 is to be changed |
| E 1 = 115.000 , NEW VALUE=? <u>105</u> | 68. Old value is provided; new value is entered |
| GET, SAVE, HELP, array address, header name, or RETURN? <u>E4</u> | 69. Equipment element #4 is selected |
| WHICH WBS item: ALL, EACH, +, =, or line #? <u>EAC</u> | 70. Each WBS item is to be changed |

1 VALUE FOR E 4 = 55.000 , NEW VALUE =? 55
 2 VALUE FOR E 4 = 55.000 , NEW VALUE =? 15
 3 VALUE FOR E 4 = 32.000 , NEW VALUE =?
 4 VALUE FOR E 4 = 32.000 , NEW VALUE =? 29.5
 5 VALUE FOR E 4 = 0.000 , NEW VALUE =?
 6 VALUE FOR E 4 = 0.000 , NEW VALUE =? 110

71. Old values for each WBS item are printed; new values are entered. A carriage return for WBS items 3 and 5 leaves the existing values unchanged.

GET, SAVE, HELP, array address, header name, or RETURN? E22

72. Equipment element #22 is selected

WHICH WBS item: ALL, EACH, +, =, or line #? EAC

73. EACH WBS item is to be changed

1 VALUE FOR E 22 = 7810.000 , NEW VALUE =?
 2 VALUE FOR E 22 = 7810.000 , NEW VALUE =? 5815
 3 VALUE FOR E 22 = 2827.000 , NEW VALUE =?
 4 VALUE FOR E 22 = 2827.000 , NEW VALUE =? 6764
 5 VALUE FOR E 22 = 0.000 , NEW VALUE =?
 6 VALUE FOR E 22 = 8800.000 , NEW VALUE =?

74. Old values for each WBS item are printed; new values are entered. A carriage return for WBS items 1,3,5,6 leaves the existing values unchanged.

GET, SAVE, HELP, array address, header name, or RETURN? M2

75. Maintenance elements M2, M5, M7 and M8 for WBS item 4 are selected and edited.

WHICH WBS item: ALL, EACH, +, =, or line #? 4

M 2 = 0.000 , NEW VALUE=? 30

GET, SAVE, HELP, array address, header name, or RETURN? M5

WHICH WBS item: ALL, EACH, +, =, or line #? =

M 5 = 0.000 , NEW VALUE=? 1

GET, SAVE, HELP, array address, header name, or RETURN? M7

WHICH WBS item: ALL, EACH, +, =, or line #? =

M 7 = 0.000 , NEW VALUE=? 5

GET, SAVE, HELP, array address, header name, or RETURN? M8

WHICH WBS item: ALL, EACH, +, =, or line #?

M 8 = 0.000 , NEW VALUE=? 45

GET, SAVE, HELP, array address, header name, or RETURN? M17

WHICH WBS item: ALL, EACH, +, =, or line #?

M 17 = 0.000 , NEW VALUE=? 1

GET, SAVE, HELP, array address, header name, or RETURN? M18

WHICH WBS item: ALL, EACH, +, =, or line #?

M 18 = 1.000 , NEW VALUE=? 0

GET, SAVE, HELP, array address, header name, or RETURN? M19

WHICH WBS item: ALL, EACH, +, =, or line #?

M 19 = 0.500 , NEW VALUE=?

GET, SAVE, HELP, array address, header name, or RETURN? SAV

File name (FILEABC or FILEABC,PASSWORD)

NAME: up to seven letters. PASSWORD up to eight letters.
? SAMFILE

WBS data already exists for SAMFILE.

Replace the file (Y,N)? Y

WBS DATA WRITTEN FOR SAMFILE

GET, SAVE, HELP, array address, header name, or RETURN? RET

EDIT: SYSTEM data , ASSumptions, sysNAME, WBS data , ADD wbs,
DELETE wbs, MERGE wbs files, LIST, or RETURN to main.
? RET

76. Old value is provided; carriage return
retains the old value
77. SAVE data is selected

78. File is named

79. Replace contents of file with current
data

80. RETURN(or carriage return) exits
the WBS editor

81. RETURN(or carriage return) exits the editor

The Personnel Costing Module

TABLE OF ORG: GET or CREate a personnel file; or get, create, or
edit TRAINing track or course data (EXplain or RETurn)
? EXP

Enter personnel module

EXPLAIN: GENeral, LIST OSs, or RETurn
? GEN

82. EXPLAIN is requested
83. GENeral explanation of personnel
module is selected

The Table of Organization module provides the means for defining the personnel requirements for a system. Within this module a user may get, create, edit or save a personnel, training track, or user defined course data file. For each line of personnel entered, the following data is requested: level, occupational specialty, pay grade, number, WBS equipment group, Training Track assignment, service T/O number (optional), and service T/O line number (optional).

The level identifies the category of personnel. For each of the O&S personnel categories, the user must specify if the personnel are to be costed as dedicated(D type) to the system or shared (S type) by the system and costed based on demand. OPRS level personnel are costed based on demand by the system. The demand is calculated as follows: number of personnel for a unit X the unit operating quantity X the annual operating hours of the unit. The cost per hour is the weighted average of hourly cost of all the OPRS personnel with a corresponding equipment group assignment. The total annual cost for the OPRD level personnel is charged to the system. For maintenance personnel levels, the demanded number of maintenance personnel hours are computed by equipment group. The D type maintenance personnel hours are subtracted from the total demand by level. The remaining demand cost is calculated by determining the weighted average cost of the S type personnel with associated level and equipment group assignments and multiplying that cost per hour by the remaining demand.

The occupational specialty is necessary for each type of personnel except General Schedule. Any OS code is acceptable unless a zero(0) is entered for the training track. A training track of 0 signifies that no training track data is available for the T/O line number and the default training cost for the OS contained in the LCCM is to be used. When the default training cost is to be used, the OS entered must be contained in the data base for that service. For a list of the OSs available for each service, request LIST OSs from the EXPLAIN option.

Pay grades E1-E9, O1-O9, W1-W4, and WB1-WB16 are available for service personnel and GS1-GS15 are available for General Schedule personnel.

The WBS number allows the assignment of personnel to specific units or groups of units included in a system. The WBS number entered must relate to the WBS number assigned to a unit. If the personnel are assigned to the entire system, a WBS of 11 should be entered.

The training track number must relate to a training track previously defined in the training track sub-module of the personnel module. A training track assignment must be made for each T/O line number with an associated O&S level designator. If training track data is not available, the user may enter an OS contained in the LCCM OS data file with a 0 for training track number and the default training cost will be used. An OS of 9900 may be entered if there are no training costs associated with the personnel.

The service T/O number and line number are optional character fields. This data is not currently used for calculations by the LCCM.

TABLE OF ORG: GET or CREate a personnel file; or get, create, or
edit TRAINING track or course data (EXplain or RETURN)
? CRE

84. CREate personnel file is requested

ENTER TABLE OF ORG: AIR Force, GENeral Schedule, NAVy, ARMy, MARine
Corps, MANUFACTurer (or RETURN)

Separate options with a space

? AIR GEN NAV ARM MAR

85. Air Force, General Schedule, Navy, Army
and Marine Corps personnel are selected

Enter the number of personnel lines to be input for AIR FORCE.

(EXplain or RETURN)

? EXP

86. EXplain personnel input is selected

ENTER THE PERSONNEL INFORMATION USING THE FOLLOWING CODES AND
SEPARATING THE DATA ITEMS WITH A SPACE.

FOR "LEVEL" ENTER ONE OF THE FOLLOWING CODES:

DEMONSTRATION AND VALIDATION

PMDD - PROGRAM MANAGEMENT

PEDD - PRODUCTIBILITY ENGINEERING & PLANNING

ENDD - ENGINEERING, DTC, RAM
 TODD - TOOLING
 FADD - FABRICATION
 ASDD - DRAFTING
 QCDD - QUALITY & CONTROL, TEST
 FULL SCALE DEVELOPMENT
 PMFD - PROGRAM MANAGEMENT
 PEFD - PRODUCTIBILITY ENGINEERING & PLANNING
 ENFD - ENGINEERING, DTC, RAM
 TOFD - TOOLING
 FAFD - FABRICATION
 ASFD - DRAFTING
 QCFD - QUALITY CONTROL, TEST
 PRODUCTION
 PMPD - PROGRAM MANAGEMENT
 PEPD - PRODUCTIBILITY ENGINEERING & PLANNING
 ENPD - ENGINEERING
 TOPD - TOOLING
 FAPD - FABRICATION
 ASPD - ASSEMBLY AND SUPPORT LABOR
 QCPD - QUALITY CONTROL, TEST
 OPERATING AND MAINTENANCE
 OPRS or OPRD - OPERATOR
 OLMS or OLMD - ORGANIZATIONAL MAINTENANCE
 ILMS or ILMD - INTERMEDIATE LEVEL MAINTENANCE
 DSUS or DSUD - DIRECT SUPPORT UNIT
 DCTS or DCTD - DSU CONTACT TEAM
 GSUS or GSUD - GENERAL SUPPORT UNIT
 GCTS or GCTD - GSU CONTACT TEAM
 SWPD - SOFTWARE PERSONNEL
 SWMD - SOFTWARE MAINTENANCE & DIAGNOSTICS
 INDD - INDIRECT PERSONNEL

RETURN to request another option, and
 HELP to reprint all personnel data entry directions.

UNDER OCCUPATIONAL SPECIALTY(OS) ENTER THE APPROPRIATE CODE.
 FOR AIR FORCE, THE AFSC MUST BE A 4-5 DIGIT CODE.
 UNDER PAYGRADE ENTER AS E1 TO E9, W1 TO W4, O1 TO O9,
 GS01 TO GS17, OR WB01 TO WB16, AS APPLICABLE

Enter the number of personnel lines to be input for AIR FORCE.
(EXPLAIN or RETURN)

? 1

Enter the following data separating items with a comma
Level,OS,Paygrade,Number,Equip group#,WBS#,Track#,RTR,
Serv.T/O#,Serv.T/O line#

T/O LINE# 1? OPRD,54550,E4,110,1,11,4,0,.27,A4895,707

87. Personnel data for Air Force are entered

Enter the number of personnel lines to be input for CIVILIAN.
(EXPLAIN or RETURN)

? 3

Enter the following data separating items with a comma
Level,Pay grade,Number,Equip group#,WBS#

T/O LINE# 2? PMDD,GS13,2,5,1,11

88. Number of personnel lines to be entered
for civilian is requested

T/O LINE# 3? PMFD,GS12,3,1,11

89. Civilian personnel data are entered

T/O LINE# 4? PMPD,GS13,2,1,11

Enter the number of personnel lines to be input for MARINE CORPS.
(EXPLAIN or RETURN)

? 3

Enter the following data separating items with a comma
Level,OS,Paygrade,Number,Equip group#,WBS#,Track#,RTR,
Serv.T/O#,Serv.T/O line#

T/O LINE# 5? OPRD,2851,E4,11,1,11

90. Number of personnel lines to be entered
for Marine Corps is requested

T/O LINE# 6? OLMS,2861,E5,1,1,11

91. Marine Corps personnel data are entered.
Note: RTR, Service T/O # and Service T/O
Line # are optional.

T/O LINE# 7? ILMS,5977,E5,30,1,11,4

Enter the number of personnel lines to be input for NAVY.
(EXPLAIN or RETURN)
? 3

Enter the following data separating items with a comma
Level, OS, Paygrade, Number, Equip group#, WBS#, Track#, RTR,
Serv. T/O#, Serv. T/O line#
T/O LINE# 8? OPRS, CE5642, E4, 1, 1, 11.4

T/O LINE# 9? ILMS, CTM-4811, E5, 33, 1, 11

T/O LINE# 10? OLMS, DS1617, E5, 45, 1, 11

Enter the number of personnel lines to be input for ARMY.
(EXPLAIN or RETURN)
? 3

Enter the following data separating items with a comma
Level, OS, Paygrade, Number, Equip group#, WBS#, Track#, RTR,
Serv. T/O#, Serv. T/O line#
T/O LINE# 11? OPRD, 36L30, E5, 36, 1, 11.1

T/O LINE# 12? GSUS, 35K20, E5, 41, 1, 11.1

T/O LINE# 13? OLMS, 24H20, E4, 28, 1, 11

TABLE OF ORG: GET, LIST, ADD, DELETE, CHANGE or SAVE personnel;
or get, create, or edit TRAINING track or course data
(EXPLAIN or RETURN)
? SAV

92. Number of personnel lines to be entered for
Navy is requested

93. Navy personnel data are entered

94. Number of personnel lines to be entered for
Army is requested

95. Personnel data for the Army is entered

Table of Organization module returns to main
prompt
96. SAV personnel data is requested

File name (FILEABC or FILEABC,PASSWORD)

NAME: up to seven letters. PASSWORD up to eight letters.
?SAMFILE

97. Personnel file name is requested

Table of Org DATA WRITTEN FOR SAMFILE

Training Track DATA WRITTEN FOR SAMFILE

User Course DATA WRITTEN FOR SAMFILE

TABLE OF ORG: GET, LIST, ADD, DELETE, CHANGE or SAVE personnel;
or get, create, or edit TRAINING track or course data
(EXPLAIN or RETURN)
? LIS

Personnel and associated files are written

98. List function is requested from T/O
options

LIST T/O: AIR Force, General Schedule, Marine Corps, ARMY
NAVY, Manufacturer, ALL (or RETURN) ? ALL

99. All personnel lines are to be listed

TABLE OF ORGANIZATION FOR AIR FORCE.

LCC T/O LINE#	LEVEL	OS	PAY GRADE	NUMBER	EQUIP. GROUP	WBS NUMBER	TRAINING TRACK #	RTR	SERVICE T/O #
1	OPRD	54550	E4	110.00	1	11.4	0	.27	A4895

TABLE OF ORGANIZATION FOR CIVILIAN.

LCC T/O LINE#	LEVEL	PAY GRADE	NUMBER	EQUIP. GROUP	WBS NUMBER
2	PMDD	GS13	2.50	1	11
3	PMFD	GS12	3.00	1	11
4	PMPD	GS13	2.00	1	11

LCCM lists personnel file

TABLE OF ORGANIZATION FOR MARINE CORPS.

LCC T/O LINE#	LEVEL	OS	PAY GRADE	NUMBER	EQUIP. GROUP	WBS NUMBER	TRAINING TRACK #	RTR	SERVICE T/O #
5	OPRD	2851	E4	11.00	1	11	0	.00	
6	OLMS	2861	E5	1.00	1	11	0	.00	
7	ILMS	5977	E5	30.00	1	11.4	0	.00	

TABLE OF ORGANIZATION FOR NAVY.

LCC T/O LINE#	LEVEL	OS	PAY GRADE	NUMBER	EQUIP. GROUP	WBS NUMBER	TRAINING TRACK #	RTR	SERVICE T/O #
8	OPRS	CE5642	E4	1.00	1	11.4	0	.00	
9	ILMS	CTM-4811	E5	33.00	1	11	0	.00	
10	OLMS	DS1617	E5	45.00	1	11	0	.00	

LCCM lists personnel file

TABLE OF ORGANIZATION FOR ARMY.

LCC T/O LINE#	LEVEL	OS	PAY GRADE	NUMBER	EQUIP. GROUP	WBS NUMBER	TRAINING TRACK #	RTR	SERVICE T/O #
11	OPRD	36L30	E5	36.00	1	11.1	0	.00	
12	GSUS	35K20	E5	41.00	1	11.1	0	.00	
13	OLMS	24H20	E4	28.00	1	11	0	.00	

NO PERSONNEL DATA LINES EXIST FOR MANUFACTURER.

TABLE OF ORG: GET, LIST, ADD, DELETE, CHANGE or SAVE personnel;
or get, create, or edit TRAINING track or course data
(EXPLAIN or RETURN)

? CHA

Enter the T/O line number to be changed or RETURN? 6

CHANGE T/O LINE: LEVEL, OS, PAY grade, NUMBER, EQUIPMENT group,
WBS number, TRAINING track number, RTR,
SERVICE T/O number, Service T/O
LINE number or RETURN? NUM

OLD NUMBER = 1.00 ; NEW NUMBER ? 62

Enter the T/O line number to be changed or RETURN? 8

CHANGE T/O LINE: LEVEL, OS, PAY grade, NUMBER, EQUIPMENT group,
WBS number, TRAINING track number, RTR,
SERVICE T/O number, Service T/O
LINE number or RETURN? NUM

OLD NUMBER = 1.00 ; NEW NUMBER ? 116

Enter the T/O line number to be changed or RETURN? 11

CHANGE T/O LINE: LEVEL, OS, PAY grade, NUMBER, EQUIPMENT group,
WBS number, TRAINING track number, RTR,
SERVICE T/O number, Service T/O
LINE number or RETURN? WBS

OLD WBS NUMBER=11.1 ;NEW WBS NUMBER? 11.4

Enter the T/O line number to be changed or RETURN? RET

TABLE OF ORG: GET, LIST, ADD, DELETE, CHANGE or SAVE personnel;
or get, create, or edit TRAINING track or course data
(EXPLAIN or RETURN)

?SAV

100. Change personnel data is requested

101. T/O line number to be changed is requested

102. NUMBER field in T/O line to be changed is selected

103. Old data value is provided, new value requested

104. RETURN (or carriage return) exits the personnel line editor

105. SAVE is selected to keep the changes

File name (FILEABC or FILEABC,PASSWORD)
 NAME: up to seven letters. PASSWORD up to eight letters.
 ?SAMFILE

Table of Org data already exists for SAMFILE.
 Replace the file (Y,N) ? Y

Table of Org DATA WRITTEN FOR SAMFILE
 Training Track data already exists for SAMFILE.
 Replace the file (Y,N) ? Y

Training Track DATA WRITTEN FOR SAMFILE
 User Course data already exists for SAMFILE.
 Replace the file (Y,N) ? Y

User Course DATA WRITTEN FOR SAMFILE

TABLE OF ORG: GET, LIST, ADD, DELETE, CHANGE or SAVE personnel;
 or get, create, or edit TRAINING track or course data
 (EXPLAIN or RETURN)

? RET

Enter the deployment schedule for the system.

Enter your data as follows: YY.MM .%% MM

YY.MM is the year and month the first item becomes operational.

%% is the % of the total system buy to become operational this

shipment. This is a decimal value. i.e. 10% would be entered as .1;

ALL can be used for 100%. MM is the length of time in months (1-99)

over which the deployment is spread

Enter RETURN or hit the carriage return key to terminate input.

YY.MM .%% MM

1? 86.9 ALL 12

106. File name is requested

107. The personnel data in SAMFILE is to be replaced

Personnel data and associated files are rewritten with corrected data

108. RETURN (or carriage return) exits the T/O module

LCCM enters the Deployment module

109. Deployment schedule is entered

DELIVER: LIST, DELETE, ADD, SAVE, GET, RETURN? SAV

110. SAVE deployment schedule is requested

The sum of your deployment % is 1.000000

File name (FILEABC or FILEABC,PASSWORD)
NAME: up to seven letters. PASSWORD up to eight letters.
?SAMFILE

111. File is named

Spread DATA WRITTEN FOR SAMFILE
Deployment DATA WRITTEN FOR SAMFILE
DELIVER: LIST, DELETE, ADD, SAVE, GET, RETURN? RET

Deployment data and associated files are written
112. RETURN exits the deployment module

The sum of your deployment % is 1.000000
ENTER START AND END YEAR.MONTH FOR EACH PHASE AS YY.MM YY.MM
ENTER DATES FOR D&V,FSD,AND PRODUCTION
ENTER BOTH DATES FOR EACH PHASE ON A SINGLE LINE
SEPARATE DATES WITH A SPACE (EX; 85.10 95.1).

LCCM enters the annual module

FOR D. & V. ? 79.3 80.8
FOR F.S.D. ? 80.8 83.6
FOR PRODUCTION ? 83.11 85.9

113. Phase start and end dates are requested
and entered

For which PHASES do you want to use default spending rates,
ALL, RETURN, NONE, or one or more of the following:

For phase D&V-CONTRACTOR ENTER 1
For phase D&V-GOVERNMENT ENTER 2
For phase FSD-CONTRACTOR ENTER 3
For phase FSD-GOVERNMENT ENTER 4
For phase PROD-CONT,N-R ENTER 5
For phase PROD-GOVT,N-R ENTER 6
For phase PROD-CONT,R ENTER 7
For phase PROD-GOVT,R ENTER 8
(separate entries with a space)

114. Default spending rates are requested for
all phases except D&V, contractor

Input 10 spending rates per line, separate entries with a space
Enter the spending rates for D&V-CONTRACTOR from FY 1979 thru FY 1980
Make 2 entries, 1 entry per year.
FOR 1979-1980? .3 .7

The sum of your spending rate percentages for D&V-CONTRACTOR is 1.000

Annual: EDIT, LIST, GET, SAVE, RETURN? SAV

File name (FILEABC or FILEABC,PASSWORD)
NAME: up to seven letters. PASSWORD up to eight letters.
? SAMFILE

Spread data already exists for SAMFILE.
Replace the file (Y,N) ? Y

Spread DATA WRITTEN FOR SAMFILE
Deployment data already exists for SAMFILE.
Replace the file (Y,N) ? Y

Deployment DATA WRITTEN FOR SAMFILE
Annual: EDIT, LIST, GET, SAVE, RETURN? RET

Inflate: INFLate, DIScount, BOTH inflate and discount,
CHAnge base year, RETURN?
INF

WHAT INFLATION RATE TABLE? ENTER DOD D, USMC MC,
USA A, USN N, USAF AF, OR PROJECT SPECIFIC PS
? D

DO YOU WANT TO USE TOA OR OUTLAY RATES? ENTER T OR O.
? I

User spending rates for D&V
contractor are requested

115. Spending rates are entered

116. SAVe phase dates and
spending rates is requested

117. File name is entered

118. Annual data is written
for SAMFILE

119. RETurn exits the annual
module
LCCM enters the inflation module

120. INFLation is selected

121. DOD rate table is selected

122. TOA rates are selected

Use PROcurement or SPEcial rates for contractor WBS items? PRO

EDIT RATES: LIST, ADD, CHANGE, DELETE, GET, SAVE inflation rates or
RETURN to inflate main
? SAV

123. Procurement rates in the DOD
table are selected for WBS items

124. SAVE inflation data is selected

File name (FILEABC or FILEABC,PASSWORD)
NAME: up to seven letters. PASSWORD up to eight letters.
? SAMFILE

Inflation DATA WRITTEN FOR SAMFILE

EDIT RATES: LIST, ADD, CHANGE, DELETE, GET, SAVE inflation rates or
RETURN to inflate main
? RET

Inflate: INFLate, DIScount, BOTh inflate and discount,
CHANGE base year, RETURN? RET

Main: LIST, EDIT, REPORT, INFLate, ANNUal, DELiver, TABLE of org.,
NOTepad, CREate, GET, SAVE, UNSave, HELP, DONE, CHARGE, (PERSONnel) ?

125. File is named

Inflation data is written

126. RETURN exits the inflation
edit module

127. RETURN exits the inflation
module

Following the creation of a new LCC data base, the user may select any of the options
listed to modify the data or select REP to generate LCC reports based on the data as entered.

Getting An Existing LCC Data File

A complete data base for version 5 of the LCCM consists of eight data files. Each data file contains the input data for a major module within the LCCM. For example, the table of organization is defined in a separate data file from the system cost element data. This file structure provides the capability to retrieve a system input file from one data base, WBS items from another data file and personnel and/or other data files from still another data base to create a new LCC data base for analysis. The user may retrieve an entire data base from the MAIN module or step from module to module and retrieve one data file at a time.

CREATE or GET ? GET

1. GET requested at the beginning of program execution retrieves all data files saved under the file name entered

ENTER YOUR FILE NAME AS 'FILEABC' OR 'FILEABC,PASSWORD'? SAMFILE

2. File name is entered

WBS DATA READ FOR SAMFILE CREATED/MODIFIED 11/19/81
System DATA READ FOR SAMFILE CREATED/MODIFIED 11/17/81
Table of Org DATA READ FOR SAMFILE CREATED/MODIFIED 11/25/81
Deployment DATA READ FOR SAMFILE CREATED/MODIFIED 11/25/81
Spread DATA READ FOR SAMFILE CREATED/MODIFIED 11/25/81
Inflation DATA READ FOR SAMFILE CREATED/MODIFIED 11/25/81
Training Track DATA READ FOR SAMFILE CREATED/MODIFIED 11/25/81
User Course DATA READ FOR SAMFILE CREATED/MODIFIED 11/25/81

LCCM reads the data from the data files for each main program module

Main: LIST, EDIT, REPORT, INFLATE, ANNUAL, DELIVER, TABLE of org.,
NOTepad, CREATE, GET, SAVE, UNSave, HELP, DONE, CHARGE, (PERSONNEL)
?

LCCM provides the MAIN prompt for selection of user option

"LIS" List

The "list" option provides the capability to list an entire data base or selected parts of the data base. More specific list functions are available within each major module. For example, the PHA option automatically lists both phase dates and spending rates while the LIS option from the ANNUAL module allows either or both the phase dates and spending rates to be listed. This option was designed for listing the data for presentation in a report. If the user's terminal is designed to accept new page feed commands, the data will be output for 8" x 11 1/2" paper. Appendix B contains an entire LCCM data base listing for SAMFILE.

Main: LIST, EDIT, REPORT, INFLATE, ANNUAL, DELIVER, TABLE of org., ? LIS
NOTepad, CREATE, GET, SAVE, UNSave, HELP, DONE, CHARGE, (PERSONNEL) ? LIS

List: SYSTEM inputs, UNIT inputs, PHASE dates and annual spending rates,
DELIVERY schedule and rates, TABLE of organization, INFLATION rates,
TRAINING tracks, USER training courses, NOTepad, ALL or RETURN ? PHA

PHASE DATES & SPENDING RATES

PHASE NAME	START DATE	END DATE	LENGTH(MONTHS)
D. & V.	1979. 3	1980. 8	18.000
F.S.D.	1980. 8	1983. 6	35.000
PRODUCTION	1983.11	1985. 9	23.000
O. & S.	1986. 9	1997. 7	131.000

2. PHASE dates and spending rates are selected from the LIST module

LCCM lists phase start and end dates as well as the length of each phase in months as calculated by the model

CF&V-CONTRACTOR	1979	1980	
	0.3000	0.7000	
CF&V-GOVERNMENT	1979	1980	
	0.3889	0.6111	
FSD-CONTRACTOR	1980	1981	1982 1983
	0.0228	0.3836	0.4376 0.1560
FSD-GOVERNMENT	1980	1981	1982 1983
	0.0228	0.3836	0.4376 0.1560
PRODUCTION-CONTRACTOR, NON-RECURRING	1984	1985	
	1.0000	0.0000	
PRODUCTION-GOVERNMENT, NON-RECURRING	1984	1985	
	1.0000	0.0000	
PRODUCTION-CONTRACTOR, RECURRING	1984	1985	
	0.4783	0.5217	
PRODUCTION-GOVERNMENT, RECURRING	1984	1985	
	0.4783	0.5217	

LCCM continues listing the spending rates for each phase

List: SYStem inputs, UNIt inputs, PHase dates and annual spending rates, DELivery schedule and rates, TABle of organization, INFLation rates, TRAIning tracks, USer training courses, NOTepad, ALL or RETURN ? RET

3. RETurn (or carriage return) exits the LIST module

Main: LIST, EDIT, REPort, INFLate, ANNUal, DELiver, TABle of org.; NOTepad, CREate, GET, SAVE, UNSave, HELP, DONE, CHARge, (PERSONnel) ?

LCCM returns to MAIN options

"EDI" Edit

The "Edit" option provides the means to change system and/or WBS item data.

Main: LIST, EDIT, REPORT, INFLATE, ANNUAL, DELIVER, TABLE OF ORG.,
NOTEPAD, CREATE, GET, SAVE, UNSAVE, HELP, DONE, CHARGE, (PERSONNEL) ? EDI 1. EDIT is selected from MAIN

EDIT: SYSTEM data, ASSUMPTIONS, SYSNAME, WBS data, ADD WBS, DELETE WBS,
MERGE WBS FILES, LIST, or RETURN to main. ? SYS

2. SYSTEM data is selected to be edited

AFTER THE "OPTION?" ENTER:

R & D or Production Cost Element Number(i.e.,211.12), or
O-number for O & S cost elements/factors(i.e.,012),or

SAVE to save data entered so far,or

GET to get R&D, Production and O&S cost data from another file, or

HELP to re-print these instructions,or

RETURN to return to the editor

Instructions for system data file editor
are provided

44

OPTION? 121.13.1

121.13.1 = 145000.000, NEW VALUE= ? 165000

OPTION? 038

0 38= 0.000, NEW VALUE=? 3800000

OPTION? SAV

File name (FILEABC or FILEABC,PASSWORD)

NAME: up to seven letters. PASSWORD up to eight letters.
? SAMFILE

System DATA already exists for SAMFILE.

Replace the file (Y,N)? Y

System DATA WRITTEN FOR SAMFILE

OPTION? GET

3. Cost element number to be changed is
entered

4. Old value is provided; new value is
entered

5. O&S cost element/factor is entered

6. Old value is provided; new value is
entered

7. SAVE option is requested

8. File name to save data is requested
and entered

9. System data already exists in SAMFILE,
LCCM requests if it should be replaced
LCCM rewrites data

10. GET option will get an existing
system data file and replace data in the
current workspace

ENTER YOUR FILE NAME AS 'FILEABC' OR 'FILEABC,PASSWORD'? SAMFILE
 System DATA READ FOR SAMFILE CREATED/MODIFIED 12/02/781
 OPTION? RET

EDIT: SYStem data , ASSumptions, sysNAME, WBS data , ADD wbs,
 Delete wbs, MERge wbs files, LIST, or RETURN to main. ? ASS

Assumptions, CHANGE, LIST, GET new service's, or RETURN to edit? GET

Assumptions: CHANGE, LIST, GET new service's, or RETURN to edit? CHA

ENTER THE VARIABLE YOU WANT TO CHANGE AFTER THE A.
 TYPE END AFTER YOUR LAST CHANGE.

A? 7

A 7= 350.00000 NEW VALUE=? 375

A? END

Assumptions: CHANGE, LIST, GET new service's, or RETURN to edit? LIS

11. File name is entered
 LCCM reads data file
12. RETURN exits the system data editor

1. ASSumptions data editor is
 selected
2. GET a new Service's assumptions
 data file should not be used. The
 data values for each Service
 assumption file must be approved by
 the Service before a master file may
 be defined. No Service approved
 data exits; therefore, applicable
 values must be entered by the
 analyst.
3. CHANGE values for assumptions is
 requested
 Instruction for assumptions editor
 are provided
4. A7 is requested to be changed
5. Old value is provided; new value
 entered
6. END exits the assumption editor
7. LIST assumptions is requested

THE FOLLOWING ASSUMPTIONS ARE MADE:

A 1=	10.0000	YEARS OF OPERATION
A 2=	0.2000	INITIAL PROVISIONING COST FACTOR (%)
A 3=	250.0000	INVENTORY INTRODUCTION \$
A 4=	250.0000	INVENTORY MANAGEMENT \$1-5000 (\$/YR)
A 5=	300.0000	INVENTORY MANAGEMENT \$5000-49,999 (\$/YR)
A 6=	300.0000	INVENTORY MANAGEMENT \$ 50,000-500,000 (\$/YR)
A 7=	375.0000	INVENTORY MANAGEMENT \$500,000+ (\$/YR)
A 8=	0.0010	TRANSPORTATION COST FACTOR
A 9=	30.0000	DISTANCE BETWEEN ORGANIZATIONAL AND INTERMEDIATE LEVEL (MILES)
A 10=	30.0000	DISTANCE DSU-GSU (MILES)
A 11=	3000.0000	DISTANCE BETWEEN INTERMEDIATE AND DEPOT (CONUS) (MILES)
A 12=	3000.0000	DISTANCE BETWEEN INTERMEDIATE AND DEPOT (EUROPE) (MILES)
A 13=	3000.0000	DISTANCE BETWEEN INTERMEDIATE AND DEPOT (WESTPAC) (MILES)
A 14=	0.0100	SHORT DISTANCE TRANSPORTATION FACTOR (\$/LBS/MILE)
A 15=	0.0010	LONG DISTANCE TRANSPORTATION FACTOR (\$/LBS/MILE)
A 16=	0.0000	TRUCK RATES (\$/TON MI)
A 17=	0.0000	RAIL RATES (\$/TON-MILE)
A 18=	0.0000	SEA RATES (\$/TON-MI)
A 19=	0.0000	AIR RATES \$/TON-MI)
A 20=	830.0000	AVAILABLE MANHOURS PER YEAR (OLM, ILM, DSU, DCT, GSU, GCT)
A 21=	1653.0000	AVAILABLE MANHOURS PER YEAR (OPR)
A 22=	0.0500	MODIFICATION FACTOR (%)
A 23=	0.0200	REPLENISHMENT FACTOR (%)
A 24=	0.0010	STORAGE COST FACTOR (%)
A 25=	0.0020	SHRINKAGE COST FACTOR (%)
A 26=	0.0000	OUT OF STOCK FACTOR (%)
A 27=	0.0000	SUPPLY PERSONNEL COST FACTOR (%)
A 28=	0.1000	DOD DISCOUNT RATE
A 29=	10.0000	SUPPORT EQUIPMENT LIFE (YRS)
A 30=	30.0000	PIPELINE TIME ORG (DAYS)
A 31=	30.0000	PIPELINE TIME INTERMEDIATE (DAYS)
A 32=	30.0000	PIPELINE TIME DSU (DAYS)
A 33=	30.0000	PIPELINE TIME GSU (DAYS)
A 34=	180.0000	PIPELINE TIME DEPOT (CONUS) (DAYS)
A 35=	180.0000	PIPELINE TIME DEPOT (EUROPE) (DAYS)
A 36=	180.0000	PIPELINE TIME DEPOT (WESTPAC) (DAYS)

EDIT: SYSTEM data, ASSumptions, sysNAME, WBS data , ADD wbs,
Delete wbs, MERGE wbs files, LIST, or RETURN to main. ? NAM

OLD NAME IS SAMPLE NEW NAME IS ? NEWNAME

EDIT: SYSTEM data , ASSumptions, sysNAME, WBS data , ADD wbs,
Delete wbs, MERGE wbs files, LIST, or RETURN to main. ? WBS

GET, SAVE, HELP, array address, header name, or RETURN? GET

ENTER YOUR FILE NAME AS 'FILEABC' OR 'FILEABC,PASSWORD'? SAMFILE

WBS DATA READ FOR SAMFILE CREATED/MODIFIED 11/19/81

GET, SAVE, HELP, array address, header name, or RETURN? SAV

File name (FILEABC or FILEABC,PASSWORD)

NAME: up to seven letters. PASSWORD up to eight letters.
?NEWFILE

WBS DATA WRITTEN FOR NEWFILE

GET, SAVE, HELP, array address, header name, or RETURN? HELP

To change specific data elements

Enter array addresses as follows:

Dnumber to change a D&V element

Fnumber to change a FSD element

Pnumber to change a Production element

Unumber to change a DTUPC element

Enumber to change an Equipment element

Mnumber to change a Maintenance element

D12 would permit you to modify the 12th element in the D&V array

1. System NAME editor is selected

2. Old name is provided; new name is entered

1. WBS data editor is selected

2. GET a new WBS data file is selected

3. New WBS data file name is entered

LCCM reads new WBS data file

4. SAVE current WBS data file is selected

5. New file name is selected

LCCM writes WBS data for new file

6. HELP is selected for explanation of WBS
item editor

WBS item editor provides instructions

To change header information:

NAME to change the WBS item name
SERVICE to change a WBS item SERVICE ASSIGNMENT
GROUP to change a WBS item EQUIP-PERSONNEL GROUP NUMBER
NSN to change a WBS item NSN/MPN
WBS to change a WBS NUMBER
GFE to change the GFE flag for a WBS item
DATE to change the UPC BASE YEAR for a WBS item

Other options are:

GET to get a new WBS item DATA BASE
SAVE to save a WBS item DATA BASE
HELP to reprint these instructions
RETURN to return to the calling program

GET, SAVE, HELP, array address, header name, or RETURN? P24	7. Production #24 is selected
WHICH WBS item: ALL, EACH, +, =, or line #? <u>1</u>	8. WBS item #1 is selected
P 24 = 0.000 , NEW VALUE=? <u>31000</u>	9. Old value is provided; new value is entered
GET, SAVE, HELP, array address, header name, or RETURN? E2	10. Equipment #2 is selected
WHICH WBS item: ALL, EACH, +, =, or line #? <u>ALL</u>	11. All is selected; this allows the same value to be entered for all WBS items for E2
Enter a new value or math operator(+,-,/,*)and value for all E 2? <u>980</u>	12. New value for E2 is entered. The model will automatically update the whole WBS file for E2.
GET, SAVE, HELP, array address, header name, or RETURN? E1	13. Equipment 1 is selected

WHICH WBS item: ALL, EACH, +, =, or line #? EAC

1	VALUE	FOR	E	1	=	130.000	,	NEW	VALUE	=?	<u>136</u>
2	VALUE	FOR	E	1	=	110.000	,	NEW	VALUE	=?	<u>98</u>
3	VALUE	FOR	E	1	=	115.000	,	NEW	VALUE	=?	<u>99</u>
4	VALUE	FOR	E	1	=	105.000	,	NEW	VALUE	=?	<u>150</u>
5	VALUE	FOR	E	1	=	0.000	,	NEW	VALUE	=?	
6	VALUE	FOR	E	1	=	125.000	,	NEW	VALUE	=?	<u>143</u>

GET, SAVE, HELP, array address, header name, or RETURN? M17

WHICH WBS item: ALL, EACH, +, =, or line #? 2

M 17 = 0.000 , NEW VALUE=? .10

GET, SAVE, HELP, array address, header name, or RETURN? M18

WHICH WBS item: ALL, EACH, +, =, or line #? =

M 18 = 1.000 , NEW VALUE=? .90

GET, SAVE, HELP, array address, header name, or RETURN? M8

WHICH WBS item: ALL, EACH, +, =, or line #? =

M 8 = 0.000 , NEW VALUE=? 5

14. EACH is selected: this allows the analyst to enter individual values for E1 for each WBS item in the data base

15. If a carriage return is entered, the current value is retained (e.g., E1 will remain 0 for WBS line item #5).

16. Maintenance #17 is selected

17. WBS item #2 is selected

18. Old value printed; new value entered

19. Maintenance #18 is selected

20. "=" specifies the same WBS line item number in this case WBS line item #2 (the last WBS item read). Use of the "=" rather than the number 2 is the most efficient way to specify that changes are to be made to the current WBS line item.

21. Maintenance 8 is selected. The "=" means that the change is to be made to WBS line item #2.

GET, SAVE, HELP, array address, header name, or RETURN? NAM

+, =, HELP, WBS Line item #? 1

The current name is MASS-STORAGE-DEVICE
Enter the new NAME.? MASS STORAGE DEVICE

GET, SAVE, HELP, array address, header name, or RETURN? SER

+, =, HELP, WBS Line item #? =

The service assignment is: DOD
Enter the new SERVICE? ARM

GET, SAVE, HELP, array address, header name, or RETURN? GRO

+, =, HELP, WBS Line item #? =

The Equip-Personnel GROUP number is 1

Enter the new GROUP number? 2

GET, SAVE, HELP, array address, header name, or RETURN? M8

WHICH WBS item: ALL, EACH, +, =, or line #? +

M 8 = 0.000 , NEW VALUE=? 5

GET, SAVE, HELP, array address, header name, or RETURN? RET

22. NAME field is selected

23. WBS line item #1 is selected

24. Old name is provided; new name is entered

25. SERVICE field is selected

26. Still WBS item #1 is selected

27. Equipment GROUP field is selected

28. "=" means that WBS line item # remains 1

29. Current GROUP number is listed

30. New GROUP number is requested and entered

31. Maintenance 8 is selected.

32. "+" specifies the next WBS item is to be changed. The last WBS item to be read was #1; therefore, M8 is to be changed for WBS item #2

33. Old value listed; new value entered

34. RETURN(or carriage return)exits the WBS editor

Adding WBS Line Items

EDIT: SYSTEM data , ASSumptions, sysNAME, WBS data, ADD wbs,
DELETE wbs, MERGE wbs files, LIST, or RETURN to main. ? ADD

How many WBS items do you want to add to your data base? 1

Is there another WBS item in the data base you want to copy? N

Name the WBS item? PRINTER

Enter your data in the following order:

Separate entries with a comma or a space

SERVICE, EQI-GROUP, NSN/MPN, WBS #, GFE, UPCBY
? DOD,2,A44532P,11.4,N,1980

51 Copy D&V data from another WBS line item? N

Carriage return to make the entries for D&V

Hit any other key to skip these entries
?

```
D&V # 1,2,3 >>>>? 1981,1,1
D&V # 4 >>>>?
D&V # 5 >>>>? 0
D&V # 6 >>>>?
D&V # 7,8,9,10 >>>>? 1000,1250,890,250
D&V # 11,12,13 >>>>? 380,410,0
D&V # 14 >>>>? 140
D&V # 15 >>>>? 378
D&V # 22 >>>>? 560
D&V # 28 >>>>? 0
D&V # 29 >>>>? 0
```

1. ADD WBS is selected
2. Number of WBS items to be added is entered
3. N(no) is entered to avoid copying the entire WBS record from a previously defined WBS item
Note: If a Y(yes) is entered, the model will ask for the WBS line item number to be copied and prompt only for the header information.
Specific values in the WBS item data may then be adjusted through the editor.
4. Header data is requested
5. Header data is entered
6. N(no) advises the model not to ask for a WBS line item number to copy D&V array values. The model now asks for all D&V values entered on the worksheet.
7. A carriage return advises the model to ask for D&V inputs
8. A carriage return for D&V #4 (a summary input) is entered. Entries for the next lower level inputs are requested. The same action is taken in response to a carriage return entered for D&V #6. The response pattern is located on the worksheet. Entering values for any of the higher level items will cause the model to skip asking for lower level items. These summary control items are marked with a @ on the data collection worksheets.

Copy FSD data from another WBS line item? N

Carriage return to make the entries for FSD
Hit any other key to skip these entries
? /

Copy PROD data from another WBS line item? N

Carriage return to make the entries for PROD
Hit any other key to skip these entries
? /

Copy DTUPC data from another WBS line item? N

Carriage return to make the entries for DTUPC
Hit any other key to skip these entries
?

DTUPC # 5, 6, 7, 8 >>>>? 1980,7,420,200
DTUPC # 9, 10, 11, 12 >>>>? 9,9,1,200
DTUPC # 13, 14, 15, 16 >>>>? 5,8,1,2,30
DTUPC # 17, 18, 19, 20 >>>>? 0,0,0,01

Copy EQUIP data from another WBS line item? Y

Copy which WBS item line number(not the WBS number)? 1

Copy MAINT data from another WBS line item? Y

Copy which WBS item line number(not the WBS number)? 1

9. Any character entered will cause the model to skip the data prompts for the FSD array and set all values to zero

10. The model is directed to skip the Production inputs by the "/"

11. A carriage return directs the model to prompt for DTUPC data. Since the item is not GFE, the model will not ask for entries for DTUPC 1-4.

12. The model is directed to copy Equipment and Maintenance arrays. WBS line item #1 is selected for copying. Equipment and Maintenance arrays are copied from WBS item #1 rather than prompting for data as was done for the D&V array

EDIT: SYStem data, ASSumptions, sysNAME, WBS data, ADD wbs,
Delete wbs, MERge wbs files, LIST, or RETURN to main. ? DEL

There are currently 7 WBS items in your data file.

Enter the unit ID numbers of the WBS items to be deleted.

Enter up to 25 numbers per line, separating each with a space
(RETURN to stop)

? 2 5

? RET

EDIT: SYStem data, ASSumptions, sysNAME, WBS data, ADD wbs,
Delete wbs, MERge wbs files, LIST, or RETURN to main. ? MER

File name: (FILEABC or FILEABC,PASSWORD)? SAMFIL2

WBS DATA READ FOR SAMFIL2

EDIT: SYStem data, ASSumptions, sysNAME, WBS data, ADD wbs,
Delete wbs, MERge wbs files, LIST, or RETURN to main. ? LIS

List: SYStem cost elements, WBS item descriptions, BOTH, or
RETURN? BOT

WBS listing options: ALL or one or more of the following:
HEADers, DEMonstration&val,FSD, PROduction, DTUpc, EQUIPMENT,
MAIntenance Or, RETURN? HEA

Suppress printing of lines with no values (Y,N)? Y

List a SINGLE WBS item, a GROUP of items or ALL? ALL

1. DElete WBS item(s) is selected

LCCM provides current number of WBS
items and instructions for deletion

2. WBS items #2 and #5 are to be deleted

1. MERge WBS data files is selected

2. WBS file to be appended to current
file is entered

1. LIST data is selected

2. BOTH system and WBS items are selected

3. HEADER information is selected

4. Suppress printing of lines with no data
values will prevent printing of rows of WBS
array elements which have a zero value

LCC WBS DATA BASE FOR SYSTEM: NEWNAME DATE: 12/02/81

NAME: MASS STORAGE DEVICE
EQUIP-PERSONNEL GROUP 2 ARMY CLASS 4 WBS ITEM LINE #: 1
WBS: 11.4.1 NSN:MSD1406Z GFE:NO
UPC BASE YEAR 1979 INFLATION FACTOR: PROCUREMENT

NAME: MICRO-COMPUTER
EQUIP-PERSONNEL GROUP 1 ARMY CLASS 4 WBS ITEM LINE #: 2
WBS: 11.4.3 NSN:MC29356Q GFE:NO
UPC BASE YEAR 1979 INFLATION FACTOR: PROCUREMENT

NAME: CONTROL-PANEL
EQUIP-PERSONNEL GROUP 2 ARMY CLASS 3 WBS ITEM LINE #: 3
WBS: 11.3 NSN:CP60954T GFE:NO
UPC BASE YEAR 1979 INFLATION FACTOR: PROCUREMENT

NAME: SHELTER
EQUIP-PERSONNEL GROUP 3 ARMY CLASS 1 WBS ITEM LINE #: 4
WBS: 11.1 NSN:SH99246S GFE:YES
UPC BASE YEAR 1979 INFLATION FACTOR: PROCUREMENT

NAME: PRINTER
EQUIP-PERSONNEL GROUP 2 ARMY CLASS 4 WBS ITEM LINE #: 5
WBS: 11.4 NSN:A44532P GFE:NO
UPC BASE YEAR 1980 INFLATION FACTOR: PROCUREMENT

WBS header information is listed

LIST: RESEARCH & Development, PROduction, OPERating & Support, 5. Research and Development cost elements are
or ALL? RES to be listed

LCC INPUT SUMMARY SHEET
RESEARCH AND DEVELOPMENT
PAGE 1

DATE: 12/02/81
SYSTEM: NEWNAME

DESCRIPTION	VALUE/REFERENCE
100 RESEARCH & DEVELOPMENT	
110 DEMONSTRATION & VALIDATION	
111 CONTRACTOR	
111.12 SYSTEM, PROJECT MANAGEMENT	148000./
111.13 SYSTEM TEST & EVALUATION	116500./
111.14 TRAINING	139000./
111.15 DATA	127700./
111.17 SOFTWARE CENTER	189000./
112 GOVERNMENT	
112.12 PROGRAM MNGMNT	
112.12.3 PGM MGT CONTRACTOR SUPPORT	58000./
112.13.1 TEST SITE ACTIVATION	112000./
112.13.2 DEVELOP TEST & EVAL (DT&E)	35000./
112.13.3 OPRTNL TEST & EVAL (OT&E)	42000./
112.14 TRAINING	89000./
120 FULL SCALE DEVELOPMENT	
121 CONTRACTOR	
121.12 SYSTEM, PROJECT MANAGEMENT	
121.12.1 SYSTEM ENGINEERING	9500./
121.12.2 PROJECT MANAGEMENT	11500./
121.13 SYSTEM TEST & EVALUATION	
121.13.1 MOCKUPS	165000./
121.13.2 TEST & EVALUATION SUPPORT	66000./
121.13.3 TEST FACILITIES	49000./
121.14 TRAINING	72000./
121.15 DATA	68000./
121.17 SOFTWARE CENTER	185000./
122 GOVERNMENT	
122.12 PROGRAM MNGMNT	
122.12.3 PGM MGT CONTRACTOR SUPPORT	88000./
122.13.1 TEST SITE ACTIVATION	61000./
122.13.2 DEVELOP TEST & EVAL (DT&E)	29000./
122.13.3 OPRTNL TEST & EVAL (OT&E)	55500./
122.14 TRAINING	114800./

R&D cost element descriptions and values listed
Note: Lower level cost elements with no value are not listed

"REP" Report

Report allows the user to select from the menu of reports produced by the model. Appendix A contains a sample of each report available.

Main: LIST, EDIT, REPORT, INFLate, ANNUal, DELiver,
TABLE of org., NOTepad, CREATE, GET, SAVE, UNSave, HELP,
DONE, CHARGE, (PERSONnel)

? REP

Do you want to use inflation or discounting in your reports(Y,N)
? Y

THE BUDGET YEAR IS 1983 DO YOU WANT THIS YEAR FOR POM RPTS(Y,N)
? Y

Include ALL or a SUBset of the WBS data base? SUB

Select on WBS item line number, GROUP or SERVICE? WBS

Enter WBS item line numbers for the items to use in this run

Enter up to 20 WBS item line numbers per line.

? 1 2 3 4 5

more or DON? DON

Reports available this run:

Constant dollar reports: DTUpC, LCC, ANNUal, POM, ARMY

Inflated dollar reports: IANNUal, IPOm, ILCC

Enter options separated by spaces, ALL, or RETURN

? DTU LCC

Which level of detail for the LCC report

SUB element, FIRST, SECond or THIRd ? THIRd

Which phases for the LCC report:

RESearch, PROduction, OPERations,

Enter options separated by a space

? ALL

1. REPort option is selected

2. The model is directed to calculate results in inflated dollars as well as constant dollars

3. The budget year for POM reports is selected

4. Use a SUBset of the WBS data base

5. Select based on WBS line item numbers

6. WBS line items 1-5 are selected for this report

7. Reports are selected for printing

8. Lowest(THIRd) level of detail is requested for the life cycle cost report. This will give the most detail in the report

9. ALL life cycle cost phases are selected for printing in this report

DESIGN-TO-UNIT PRODUCTION TABLE FOR SAMPLE

DATE 12/04/81 TIME 10:54:11

UNIT ID	NAME	DTUPC	QUANTITY	
			USED FOR UPC	LOT BUY ESTIMATE QUANTITY
1	MASS-STORAGE-DEVICE	8646.08	80.	150.
2	MASS-MEMORY	39932.71	80.	130.
3	MICRO-COMPUTER	8444.07	80.	125.
4	CONTROL-PANEL	13503.75	80.	120.
5	COMPUTER-PROGRAMS	11968.00	1.	1.

LIFE CYCLE COST TABLE FOR SAMPLE

COSTS IN THOUSANDS OF CONSTANT 1980 DOLLARS.						
DATE 12/04/81		TIME 10:54:23				
LIFE CYCLE COST ELEMENTS		LEVEL		LEVEL		SUB ELEM
STRUCTURE (BY LEVEL)		3	2	1	ELEM	

100 RESEARCH & DEVELOPMENT						
110 DEMONSTRATION & VALIDATION						
111 CONTRACTOR						
111.11 PRIME MISSION EQUIP (PME)						
111.11.3 COMMUNICATIONS						
111.11.4 AUTO DATA PROCESSING EQUIP						
111.11.5 COMPUTER PROGRAMS						
111.12 SYSTEM, PROJECT MANAGEMENT						
111.13 SYSTEM TEST & EVALUATION						
111.14 TRAINING						
111.15 DATA						
111.17 SOFTWARE CENTER						
112 GOVERNMENT						
112.11 GOVT FURN EQUIP(GFE)						
112.12.2 PROGRAM MANAGEMENT CIVILIAN						
112.12.3 PGM MGT CONTRACTOR SUPPORT						
112.13.1 TEST SITE ACTIVATION						
112.13.2 DEVELOP TEST & EVAL (DT&E)						
112.13.3 OPRNL TEST & EVAL (OT&E)						
112.14 TRAINING						
120 FULL SCALE DEVELOPMENT						
121 CONTRACTOR						
121.11 PRIME MISSION EQUIP (PME)						
121.11.3 COMMUNICATIONS						
121.11.4 AUTO DATA PROCESSING EQUIP						
		52.	483.			1723.
		401.				1203.
		30.				
			148.			
			117.			
			139.			
			128.			
			189.			
					520.	
		184.				
		58.				
		35.			189.	
		42.				
			89.			
						1687.
		46.	344.			1687.
		282.				

121.11.5 COMPUTER PROGRAMS	16.		
121.12 SYSTEM, PROJECT MANAGEMENT		21.	
121.12.1 SYSTEM ENGINEERING	10.		
121.12.2 PROJECT MANAGEMENT	12.		
121.13 SYSTEM TEST & EVALUATION		280.	
121.13.1 MOCKUPS	165.		
121.13.2 TEST & EVALUATION SUPPORT	66.		
121.13.3 TEST FACILITIES	49.		
121.14 TRAINING		72.	
121.15 DATA		68.	
121.17 SOFTWARE CENTER		185.	
122 GOVERNMENT			717.
122.12 PROGRAM MNGMNT		457.	
122.12.2 PROGRAM MANAGEMENT CIVILIAN	369.		
122.12.3 PGM MGT CONTRACTOR SUPPORT	88.		
122.13.1 TEST SITE ACTIVATION		146.	
122.13.2 DEVELOP TEST & EVAL (DT&E)	29.		
122.13.3 OPRTRL TEST & EVAL (OT&E)	56.		
122.14 TRAINING		115.	
TOTAL COSTS FOR RESEARCH AND DEVELOPMENT			3411.

LIFE CYCLE COST ELEMENTS STRUCTURE (BY LEVEL)		COSTS IN THOUSANDS OF CONSTANT 1980 DOLLARS. DATE 12/04/81		TIME 10:56:19		SUB	
		LEVEL		LEVEL		ELEM	
		3		2		1	
200 PRODUCTION							1521.
210 PRODUCTION (NON-RECURRING)							
211 CONTRACTOR							1053.
211.11 PRIME MISSION EQUIP				13.			
211.11.3 COMMUNICATIONS		2.					
211.11.4 AUTO DATA PROCESSING EQUIP		8.					
211.11.5 COMPUTER PROGRAMS		2.					
211.12 SYSTEM/PROJECT MNGMNT				245.			
211.12.1 SYSTEM ENGINEERING		119.					
211.12.2 PROJECT MANAGEMENT		126.					
211.13 TRAINING				175.			
211.13.1 EQUIPMENT		99.					
211.13.2 SERVICES		38.					
211.13.3 FACILITIES		38.					
211.14 PRODUCTION STARTUP							
211.15 DATA				189.			
211.17 SYSTEM TEST & EVAL SUPT				245.			
211.18 SOFTWARE CENTER				122.			
211.19 CONTRACTOR TECH SUPPORT				22.			
212.1 GOVERNMENT				43.			468.
212.12 INITIAL TRAINING				65.			
212.13 SYSTEM TEST & EVALUATION				170.			
212.13.1 PROD ACPT TEST&EVAL(PATE)		73.					
212.13.2 OPRNL TEST & EVAL(OT&E)		97.					
212.14 TEST SITE ACTIVATION				39.			
212.15 PROGRAM MANAGEMENT				193.			
212.15.2 PROGRAM MANAGEMENT CIVILIAN		148.					
212.15.3 PGM MNGMNT CONTRACTOR SUPT		46.					

212.17 INVENTORY MANAGEMENT	1.		
220 PRODUCTION(RECURRING)			11647.
221 CONTRACTOR		11321.	
221.11 PRIME MISSION EQUIP	9176.		
221.11.3 COMMUNICATIONS			1620.
221.11.4 AUTO DATA PROCESSING EQUIP			7544.
221.11.5 COMPUTER PROGRAMS			12.
221.18 INITIAL SPARES/REPAIR PARTS	1835.		
222 GOVERNMENT		326.	
222.12 QUALITY CONTROL & INSPECT	119.		
222.13 TRANSPORTATION	49.		
222.14 OPERATIONAL/SITE ACTIVATION	91.		
222.18 SYSTEM TEST & EVAL	67.		
TOTAL COSTS FOR PRODUCTION			13168.

COSTS IN THOUSANDS OF CONSTANT 1980 DOLLARS.					
DATE 12/04/81		TIME 10:58:00			
LIFE CYCLE COST ELEMENTS	LEVEL 3	LEVEL 2	LEVEL 1	SUB ELEM	ELEM
STRUCTURE (BY LEVEL)					
300 OPERATIONS AND SUPPORT					
310 OPERATIONS					26761.
311 OPERATOR PERSONNEL				24673.	
311.1 CREW					
311.1.1 MILITARY CREW		24673.			
BASE PAY AND ALLOWANCES	14031.				
REPLACEMENT TRAINING	5830.				
HEALTH CARE	621.				
PERM CHANGE OF STATION	1287.				
RETIREMENT	1363.				
TRANS, PRIS, PATIENTS	463.				
BASE OPERATING SUPT	1079.				
313 ENERGY CONSUMPTION					
313.2 ELECTRIC POWER			11.		11.
314 OPERATIONAL FACILITIES				1949.	
316 OPERATIONAL TRANSPORTATION				128.	
320 MAINTENANCE					5482.
321 ORGANIZATIONAL MAINTENANCE					
321.1 PERSONNEL			78.		301.
321.1.1 MILITARY MAINT PERS		78.			
BASE PAY AND ALLOWANCES	38.				
REPLACEMENT TRAINING	24.				
HEALTH CARE	2.				
PERM CHANGE OF STATION	2.				
RETIREMENT	5.				
TRANS, PRIS, PATIENTS	1.				
BASE OPERATING SUPT	6.				
321.4 ORG MAINT FACILITIES					223.

322 INTERMEDIATE MAINTENANCE			3180.
322.1 INTER MAINT PERSONNEL		31.	
322.1.1 MILITARY MAINT PERS	31.		
BASE PAY AND ALLOWANCES	15.		
REPLACEMENT TRAINING	9.		
HEALTH CARE	1.		
PERM CHANGE OF STATION	1.		
RETIREMENT	2.		
TRANS,PRIS,PATIENTS	0.		
BASE OPERATING SUPT	3.		
322.2 MAINT MATERIAL		1.	
322.2.1 DISCARDED SPARES	1.		
322.3 TRANSPORTATION		0.	
322.4 INTER MAINT FACILITIES		3147.	
323 DEPOT REPAIR			1369.
323.1 LABOR		1366.	
323.2 MATERIAL		3.	
324 DEPOT OVERHAUL			302.
324.1 LABOR		173.	
324.2 MATERIAL CHARGES		130.	
325 OPER SOFTWARE SUPPORT			188.
325.3 CONTRACT S/W MAINTENANCE		188.	
326 MAINT SOFTWARE SUPPORT		70.	
326.3 CONTRACT S/W MAINTENANCE			72.
327 CONTRACT MAINTENANCE			14.
340 SUPPLY SUPPORT			14.
343 INVENTORY ADMINISTRATION		14.	
343.1 INVENTORY MANAGEMENT			340.
350 TECH DATA REVISIONS			

TOTAL COSTS FOR OPERATIONS AND SUPPORT			32598.

LE COSTS			

			49177.

Reports available this run:

Constant dollar reports: DTUpC, LCC, ANNUal, POM, ARMY
Inflated dollar reports: IANNUal, IPOM, ILCC

LCC returns to report options

Enter options separated by spaces, ALL, or RETURN
? RET 10. RETURN(or carriage return)exits the report
module

Main: LIST, EDIT, REPORT, INFlate, ANNUal, DELiver, TABLE of org.,
NOTepad, CREATE, GET, SAVE, UNSave, HELP, DONE, CHARGE, (PERSONnel)
?

"INF" Inflate

The "Inflate" option gives the user the ability to inflate, discount, inflate and discount, and change the base year dollars of the user's data file.

DOD TOA and Outlay inflation rates in six POM budget categories (RDT&E, MILCON, Procurement, O&M, Other Procurement, and Military Personnel) are available. Standard files for USMC, USA, USN and USAF rates may be entered if required by the Service. The user may also use Project Specific rates from an existing inflation file, or by entering project specific rates through the terminal. The user may, at any time, edit existing rates or select a new rate table. Rates are applied to the system cost by budget categories as defined in the model's assumptions (see the input worksheets). In addition to the rates for the six POM categories, the user may optionally elect to create and use up to two additional rate categories for contractor furnished equipment. These two rates are applied by WBS item, per the user's instructions, with any unassigned equipments being inflated using the procurement rates.

To discount, users may select either the standard DOD discount rate of 10% or specify their own rate. The user may also change the base year for discounting to any year after the first year of the project.

Inflate: Using Rates Contained in Data File

Main: LIST, EDIT, REPORT, INFLATE, ANNUAL, DELIVER,
TABLE of org., NOTepad, CREATE, GET, SAVE, UNSAVE, HELP,
DONE, CHARGE, (PERSONNEL)
? INF

Inflate: INFLATE, DISCOUNT, BOTH INFLATE and discount,
CHANGE base year, RETURN? INF

Use current inflation table for system inputs (Y,N)

? Y Use PROCUREMENT or SPECIAL rates for contractor WBS items? PRO

EDIT RATES: LIST, ADD, CHANGE, CREATE, DELETE, GET,
SAVE inflation rates or RETURN to inflate main

? RET

Inflate: INFLATE, DISCOUNT, BOTH INFLATE and discount,
CHANGE base year, RETURN? RET

Main: LIST, EDIT, REPORT, INFLATE, ANNUAL, DELIVER,
TABLE of org., NOTepad, CREATE, GET, SAVE, UNSAVE, HELP,
DONE, CHARGE, (PERSONNEL)

1. Inflation module is selected
2. Inflate is selected
3. Current rates are selected
4. Rates for WBS items are selected
5. RETURN(or carriage return) exits the editor
6. RETURN(or carriage return) exits inflation LCCM returns to main

Inflate: Creating Project Specific Rates

Main: LIST, EDIT, REPORT, INFLATE, ANNUAL, DELIVER,
TABLE of org., NOTepad, CREATE, GET, SAVE, UNSAVE, HELP,
DONE, CHARGE, (PERSONNEL)
? INF

Inflate: INFLATE, DISCOUNT, BOTH INFLATE and discount,
CHANGE base year, RETURN? INF

Use current inflation table for system inputs (Y,N)
? N

1. Inflation module is selected
2. Inflate is selected
3. Current rates are rejected

Which inflation table:

DOD(1), Marine Corps(2), Army(3), Navy(4), Air Force(5), Project(6)
? 6

Enter rates from the terminal or GET an existing file? ENT

4. Project Specific rates are selected
5. Enter rates from terminal

Enter rates for RDI&E If a rate is to be used for 2 or more years, enter the # years and the rate as follows: Years*rate
E.G., 10*.06 would enter 6% for 10 years.

Terminate the input line with a slash /.
? 30*.05/

Enter rates beginning with 1979 for MILCON

Terminate the input line with a slash /.
? 10*.04 20*.055/

Enter rates beginning with 1979 for PRODC
Terminate the input line with a slash /.
? 5*.06 .07 .08 8*.09 10*.10/

Enter rates beginning with 1979 for O&M
Terminate the input line with a slash /.
? 20*.06 10*.065/

Enter rates beginning with 1979 for OP

Terminate the input line with a slash /.
? 30*.08/

Enter rates beginning with 1979 for MP

Terminate the input line with a slash /.
? 30*.078/

Use PROcurement or SPEcial rates for contractor WBS items? SPE
Enter how many tables (1 or 2)? 2

6. Inflation rates are entered for appropriation category

7. The Special rates option is selected
8. Enter 2 tables

Enter inflation rates separated by spaces beginning with 1987
 For RATE 1 If a rate is to be used for several years, enter the rate
 as: #YEARS * RATE, E.G. 10*.06 would enter 6% for 10 years.
 Terminate the input line with a slash /.

? 20*.045/

Enter inflation rates separated by spaces beginning with 1987
 For RATE 2 If a rate is to be used for several years, enter the rate
 as: #YEARS * RATE, E.G. 10*.06 would enter 6% for 10 years.
 Terminate the input line with a slash /.

? 20*.058/

LIST, CHAnge, REAssign WBS inflation assignments, RETurn

? REA

Enter the WBS items file addresses which are to be assigned inflation
 table RATE 1

Options are : ALL to assign the table for all WBS items not GFE

Enter individual WBS file addresses for assignment. Enter up to 20
 integer values per line. Enter DONE after the last value.

Enter REMaining to cause the model to assign these rates to all
 remaining WBS items

? 1 3

? DON

Enter the WBS item file addresses which are to be assigned inflation
 table RATE 2

Options are : ALL to assign the table for all WBS items not GFE
 Enter individual WBS file addresses for assignment. Enter up to 20
 integer values per line. Enter DONE after the last value.

Enter REMaining to cause the model to assign these rates to all
 remaining WBS items

? 2 4 5

? DON

LIST, CHAnge, REAssign WBS inflation assignments, RETurn

? LIS

9. Inflation rates are entered for
 RATE 1

10. Inflation rates are entered for
 RATE 2

11. REAssign WBS inflation assignments
 is selected

12. WBS items are assigned to RATE 1

13. WBS items are assigned to RATE 2

14. LIST WBS inflation assignments is
 selected

UNIT# RATE ASSIGNMENT

1 RATE 1
2 RATE 2
3 RATE 1
4 RATE 2
5 RATE 2

LCCM lists rate assignments

LIST, CHange, REAssign WBS inflation assignments, RETurn? CHA

15. CHange assignments is selected

Enter changes to rate assignments: WBS item line number, Rate
10,2 would assign RATE2 TO UNIT 10.
Enter END for the last entry? 4,1

16. Rate assignment change is entered

Enter changes to rate assignments: WBS item line number, Rate
10,2 would assign RATE2 TO UNIT 10.
Enter END for the last entry? END

LIST, CHange, REAssign WBS inflation assignments, RETurn? LIS

17. LIS assignments is selected

UNIT# RATE ASSIGNMENT

1 RATE 1
2 RATE 2
3 RATE 1
4 RATE 2
5 RATE 2

LCCM lists new rate assignments

LIST, CHange, REAssign WBS inflation assignment, RETurn? RET

18. RETurn exits the assignment module

EDIT RATES: LIST, ADD, CHange, CREate ,DElete, GET,
SAVE inflation rates or RETurn to inflate main
? RET

19. RETurn exits the rate editor

Inflate: INflate, DIScount, BOTh inflate and discount,
CHANGE base year, RETurn? REI

20. RETurn exits inflate

Inflate: Discounting

Main: LISt, EDIt, REPort, INflate, ANNUal, DELiver, TABle of org.,
NOTepad, CREate, GET, SAVe, UNSave, HELP, DONE, CHARge, (PERSONnel)
? INF

1. INflation module is selected

Inflate: INflate, DIScount, BOTh inflate and discount,
CHAnge base year, RETurn? DIS
THE DISCOUNT RATE IS CURRENTLY SET AT .000

2. DIScounting is selected

DO YOU WANT TO CHANGE THIS RATE? (Y,N)

? Y

INPUT THE NEW FACTOR IN THE FORMAT .XXX

? .10

THE FIRST YEAR OF YOUR PROJECT IS 1979 . DO YOU WANT

DISCOUNTING TO COMMENCE IN THIS YEAR? (Y,N)

? N

ENTER THE NEW YEAR

? 80

3. CHAnge the rate

4. Enter the new rate

5. Select new base year for discounting

6. Enter new base year for discounting

Inflate: CHAnge Base Year

Inflate: INflate, DIScount, BOTh inflate and discount,
CHAnge base year, RETurn? CHA

7. CHAnge base year is selected

The current base year for system inputs is

1980

8. Current base year is printed

EDIt dates, CHAnge base years, BOTh, HELP or RETurn? CHA

9. Change base year is slected

ENTER THE NEW BASE YEAR; E.G., 85 WOULD CAUSE ALL INPUT DOLLAR
VALUES TO BE CONVERTED TO 1985 DOLLARS FOR THE REPORT WRITER'S USE
? 80

10. New base year is entered

Inflate: INflate, DIScount, BOTh inflate and discount,
CHAnge base year, RETurn? RET

11. RETurn exits the inflation module

"ANN" Annual

The "Annual" module requires a user to provide the start and end dates for the R&D and Production phases. In addition, the spending rates for the phases are defined. The model contains historical spending rates that may be employed to spread costs over time. The user may elect to use the default rates contained in the model or specify any or all spending rates associated with the phases.

Main: LISt, EDIt, REPort, INFLate, ANNUal, DELiver, TABle of org.,
NOTepad, CREate, GET, SAVE, UNSave, HELP, DONE, CHArge, (PERSONnel)
? ANN

Annual: EDIt, LISt, GET, SAVE, REtUrN? LIS

List: SChedule, spending RAtes or BOf? BOI

PHASE NAME	START DATE	END DATE	LENGTH(MONTHS)
D. & V.	1979. 3	1980. 8	18.000
F.S.D.	1980. 8	1983. 6	35.000
PRODUCTION	1983.11	1985. 9	23.000
O. & S.	1986. 9	1997. 7	131.000

LIST SPENDING RATES: DV, FSD, PRODUCTION, ALL or RETURN? ALL 4. List rates for all phases

1. Annual option is selected
2. LISt data is selected
3. List both dates and rates

D&V-CONTRACTOR	1979	1980	
	0.3000	0.7000	
D&V-GOVERNMENT	1979	1980	
	0.3889	0.6111	
FSD-CONTRACTOR	1980	1981	1982 1983
	0.0228	0.3836	0.4376 0.1560
FSD-GOVERNMENT	1980	1981	1982 1983
	0.0228	0.3836	0.4376 0.1560
PRODUCTION-CONTRACTOR, NON-RECURRING	1984	1985	
	1.0000	0.0000	
PRODUCTION-GOVERNMENT, NON-RECURRING	1984	1985	
	1.0000	0.0000	
PRODUCTION-CONTRACTOR, RECURRING	1984	1985	
	0.4783	0.5217	
PRODUCTION-GOVERNMENT, RECURRING	1984	1985	
	0.4783	0.5217	

LCCM lists phase dates and spending rates

- Annual: EDIt, LISt, GEt, SAVe, REtUrN? EDI
- EDIT: SCHedule and spending rates or spending RATes only? SCH
- ENTER START AND END YEAR.MONTH FOR SELECTED PHASES.
TYPE (D&V, FSD, PROD, ALL OR RETURN).
- Separate entries with a space.
? PROD
5. EDIt data is selected
 6. Edit SCHedule (dates) is selected
 7. PRODuction phase is selected

ENTER START AND END YEAR, MONTH FOR EACH PHASE AS YY, MM YY, MM
 ENTER DATES FOR D&V, FSD, AND PRODUCTION
 ENTER BOTH DATES FOR EACH PHASE ONE A SINGLE LINE
 SEPARATE DATES WITH A SPACE (EX: 85.10 95.1).

FOR PRODUCTION ? 83.11 86.10

Which PHASE spending rates do you want to change?
 ALL, RETURN, or one or more of the following:

For phase D&V-CONTRACTOR	enter :	1
For phase D&V-GOVERNMENT	enter :	2
For phase FSD-CONTRACTOR	enter :	3
For phase FSD-GOVERNMENT	enter :	4
For phase PROD-CONT, N-R	enter :	5
For phase PROD-GOVT, N-R	enter :	6
For phase PROD-CONT, R	enter :	7
For phase PROD-GOVT, R	enter :	8

Enter all numbers on one line separated by spaces: 1 3 5
 ? 7 8

REQUESTED PHASES ARE:

PROD-CONT, R PROD-GOVT, R

IS THAT CORRECT (Y OR N) ? Y

Use Default spending rates or MODIFY existing rates for PHASE

PROD-CONT, R ? DEF

Use Default spending rates or MODIFY existing rates for PHASE

PROD-GOVT, R ? DEF

Annual: EDIT, LIST, GET, SAVE, RETURN? SAV

File name (FILEABC or FILEABC, PASSWORD)

NAME: up to seven letters. PASSWORD up to eight letters.

?SAMFILE

Spread data already exists for SAMFILE

8. New start and end dates for production are entered
 Note: If new date(s) are entered, it is essential that the appropriate phase spending rate be recalculated or the model will ignore the effect the change on dates has on the rates.

9. Change spending rates for Production recurring, Government and contractor

10. Use default spending rates

11. Use default spending rates

12. SAVE new data

13. File name is entered

14. Replace current files
15. List schedule and rates
16. List production rates only
17. EDIT is selected
18. Edit RATES is selected

Replace the file (Y,N)? Y
 Spread DATA WRITTEN FOR SAMFILE
 Deployment DATA ALREADY EXISTS FOR SAMFILE.
 Replace the file (Y,N)? Y
 Deployment DATA WRITTEN FOR SAMFILE
 Annual: EDIT, LIST, GET, SAVE, RETURN? LIS
 List: Schedule, spending RATES or BOTH? BOT
 PHASE NAME START DATE END DATE LENGTH(MONTHS)
 D. & V. 1979. 3 1980. 8 18.000
 F.S.D. 1980. 8 1983. 6 35.000
 PRODUCTION 1983.11 1986.10 36.000
 O. & S. 1986. 9 1997. 7 131.000
 LIST SPENDING RATES: CD, FSD, PRODUCTION, ALL or RETURN? PROD
 PRODUCTION-CONTRACTOR, NON-RECURRING
 1984 1985 1986 1987
 1.0000 0.0000 0.0000 0.0000
 PRODUCTION-GOVERNMENT, NON-RECURRING
 1984 1985 1986 1987
 1.0000 0.0000 0.0000 0.0000
 PRODUCTION-CONTRACTOR, RECURRING
 1984 1985 1986 1987
 0.3056 0.3333 0.3333 0.0278
 PRODUCTION-GOVERNMENT, RECURRING
 1984 1985 1986 1987
 0.3056 0.3333 0.3333 0.0278
 Annual: EDIT, LIST, GET, SAVE, RETURN? EDI
 EDIT: Schedule and spending rates or spending RATES only? RAT
 Which PHASE spending rates do you want to change?
 ALL, RETURN, or one or more of the following:
 For phase D&V-CONTRACTOR enter : 1
 For phase D&V-GOVERNMENT enter : 2
 For phase FSD-CONTRACTOR enter : 3
 For phase FSD-GOVERNMENT enter : 4
 For phase PROD-CONT,N-R enter : 5

For phase PROD-GOVT,N-R enter : 6
 For phase PROD-CONT,R enter : 7
 For phase PROD-GOVT,R enter : 8
 Enter all numbers on one line spearated by spaces: 1 3 5
 ? 1

REQUESTED PHASES ARE:

D&V-CONTRACTOR

IS THAT CORRECT (Y OR N) ? Y

Use DEFAULT spending rates or MODify existing rates for PHASE

D&V-CONTRACTOR ? MOD

ENTER all new spending rates or CHANGE selected years for PHASE:

D&V-CONTRACTOR ? ENT

Enter 10 spending rates per line,separate entries with a space

Enter the spending rates for D&V-CONTRACTOR from FY 1979 thru FY 1980.

Make 2 entries, 1 entry per year.

FOR 1979-1980? .35 .65

The sum of your spending rate percentages for D&V-CONTRACTOR is 1.000000

Annual: EDIT, LIST, GET, SAVE, RETURN? RET

Main: LIST, EDIT, REPORT, INFLATE, ANNUAL, DELIVER, TABLE of org.,

NOTepad, CREATE, GET, SAVE, UNSave, HELP, DONE, CHARGE, (PERSONNEL)

?

"DEL" Deliver

The "Deliver" Module provides the capability to specify the deployment schedule for the WBS items. This schedule coupled with years of operation (A1) is used to calculate the operating costs during the build-up and build-down periods associated with achieving operational capability and eventual replacement of equipment at the end of service life. The model makes the assumption that units will achieve operational capability at a constant rate over the delivery period. If the rate at which operational capability will vary from month to month, use different deployment schedules to build the composite rate. The model assumes that equipment will be replaced according to the deployment shedule after it operational life (Assumption 1).

19. Edit contractor demonstration and validation phase spending rates

20. MODIfy existing rates is selected

21. ENTER rates is selected

22. New rates for D&V are entered

23. RETURN exits the annual module

LCCM returns to main

Main: LIST, EDIT, REPORT, INFLATE, ANNUAL, DELIVER, TABLE OF ORG.,
 NOTEPAD, CREATE, GET, SAVE, UNSAVE, HELP, DONE, CHARGE, (PERSONNEL)
 ? DEL

DELIVER: LIST, DELETE, ADD, SAVE, GET, RETURN? LIS
 # YEAR. PERCENT PERIOD IN
 MONTH % MONTHS

1 1986. 9 100.0 12

DELIVER: LIST, DELETE, ADD, SAVE, GET, RETURN? DEL

DELETE WHICH LINES? ENTER UP TO 25 LINE NUMBERS,
 SEPARATED WITH A SPACE. (EX - 45 30 2 23)
 ? 1

YOU HAVE DELETED ALL LINES OF EQUIPMENT DELIVERY DATA.

DELIVER: LIST, DELETE, ADD, SAVE, GET, RETURN? ADD

Enter the deployment schedule for the system.

Enter your data as follows: YY.MM .%% MM

YY.MM is the year and month the first item becomes operational.
 %% is the % of the total system buy to become operational this
 shipment

This is a decimal value. i.e. 10% would be entered as .1

ALL can be used for 100%

MM is the length of time in months(1-99) over which the
 deployment is spread

1. DELIVER is selected

2. LIST delivery schedule is selected

LCCM lists delivery schedule

3. DELETE line is selected. There is
 no editor for this module. Changes are
 made by deleting the erroneous line and
 entering a correct line
 4. Delete the first line

5. ADD delivery lines is selected

-Enter RETURN or hit the carriage return key to terminate input.

YY.MM .%% MM
1? 87.5 .75 12
2? 88.2 .25 12
3? RET

DELIVER: LIST, DELETE, ADD, SAVE, GET, RETURN? SAV

The sum of your deployment % is 1.000000

File name (FILEABC or FILEABC,PASSWORD)

NAME: up to seven letters. PASSWORD up to eight letters.
? SAMFILE

Spread DATA ALREADY EXISTS FOR SAMFILE.

Replace the file(Y,N)? Y

Spread DATA WRITTEN FOR SAMFILE

Deployment DATA ALREADY EXISTS FOR SAMFILE.

Replace the file(Y, N) ? Y

Deployment DATA WRITTEN FOR SAMFILE

DELIVER: LIST, DELETE, ADD, SAVE, GET, RETURN? GET

ENTER YOUR FILE NAME AS 'FILEABC' OR 'FILEABC,PASSWORD'? SAMFILE

Spread DATA READ FOR SAMFILE CREATED/MODIFIED 12/04/81

Deployment DATA READ FOR SAMFILE CREATED/MODIFIED 12/04/81

DELIVER: LIST, DELETE, ADD, SAVE, GET, RETURN? RET

The sum of your deployment % is 1.000000

Main: LIST, EDIT, REPORT, INFLATE, ANNUAL, DELIVER, TABLE OF ORG.,
NOTEPAD, CREATE, GET, SAVE, UNSAVE, HELP, DONE, CHARGE, (PERSONNEL)
?

6. New deployment schedule is entered

7. SAVE new deployment schedule is selected

8. File is named, data is saved

9. Replace the existing file

10. Replace the existing file

11. GET an existing delivery schedule

LCCM gets delivery data file

12. RETURN exits the deliver module

LCCM returns to main

"TAB" Table of Organization

The Table of Organization module provides the means for defining the personnel requirements for a system. The module includes costs for Army, Navy, Marine Corps, Air Force and General Schedule personnel. Hourly costs for manufacturer personnel may be entered by the user through the creation of a terminal format file (see T/O: Manufacturer Personnel). Within this module a user may get, create, edit or save a personnel, training track, or user defined course data file. For each line of personnel entered, the following data is selected: level, occupational specialty, pay grade, number, WBS, equipment group, Training Track assignment, service T/O number (optional), and service T/O line number (optional).

The level identifies the category of personnel. For each of the O&S personnel categories, the user must specify if the personnel are to be costed as dedicated(D type) to the system or shared (S type) by the system and costed based on demand. OPRS level personnel are costed based on demand by the system. The demand is calculated as follows: number of personnel for a unit X the unit operating quantity X the annual operating hours of the unit. The cost per hour is the weighted average of hourly cost of all the OPRS personnel with a corresponding equipment group assignment. The total annual cost for the OPRD level personnel is charged to the system. For maintenance personnel levels, the demanded number of maintenance personnel hours are computed by equipment group. The D type maintenance personnel hours are subtracted from the total demand by level. The remaining demand cost is calculated by determining the weighted average cost of the S type personnel with associated level and equipment group assignments and multiplying that cost per hour by the remaining demand.

The occupational specialty is necessary for each type of personnel except General Schedule. Any OS code is acceptable unless a zero(0) is entered for the training track. A training track of 0 signifies that no training track data is available for the T/O line number and the default training cost for the OS contained in the LCCM is to be used. When the default training cost is to be used, the OS entered must be contained in the data base for that service. For a list of the OSs available for each service, request LIST OSs from the EXPLAIN option.

The equipment group allows the assignment of personnel to a specific WBS item or group of WBS items included in a system.

The training track number must relate to a training track previously defined in the training track sub-module of the personnel module. A training track assignment must be made for each T/O line number with an associated O&S level designator. If training track data is not available, the user may enter an OS contained in the LCCM OS data file with a 0 for training track number and the default training cost will be used.

Main: LIST, EDIT, REPORT, INFLATE, ANNUAL, DELIVER, TABLE OF ORG.,
 NOTEPAD, CREATE, GET, SAVE, UNSAVE, HELP, DONE, CHARGE, (PERSONNEL)
 ? TAB

1. TABLE OF Organization is selected

TABLE OF ORG: GET, LIST, ADD, DELETE, CHANGE or SAVE personnel;
 or get, create, or edit TRAINING track or course data
 (EXPLAIN or RETURN)
 ? LIS

2. LIST T/O is selected

LIST T/O: AIR Force, GENERAL Schedule, MARINE Corps,
 ARMY, NAVY, MANUFACTURER, ALL (or RETURN)? ALL

3. ALL option is selected

TABLE OF ORGANIZATION FOR AIR FORCE.

LCC T/O LINE#	LEVEL	OS	PAY GRADE	NUMBER	EQUIP. GROUP	WBS NUMBER	TRAINING TRACK #	SERVICE RTR	T/O #
1	OPRD	54550	E 4	110.00	1	11.4	0.	.27	A4895

TABLE OF ORGANIZATION FOR CIVILIAN.

LCC T/O LINE#	LEVEL	PAY GRADE	NUMBER	EQUIP. GROUP	WBS NUMBER
2	PMDD	GS13	2.50	1	11
3	PMFD	GS12	3.00	1	11
4	PMPD	GS13	2.00	1	11

TABLE OF ORGANIZATION FOR MARINE CORPS.

LCC T/O LINE#	LEVEL	OS	PAY GRADE	NUMBER	EQUIP. GROUP	WBS NUMBER	TRAINING TRACK #	SERVICE RTR	T/O #
5	OPRD	2851	E 4	11.00	1	11	0	.43	
6	OLMS	2861	E 5	62.00	1	11	0	.43	
7	ILMS	5977	E 5	30.00	1	11.4	0	.43	

TABLE OF ORGANIZATION FOR NAVY.

LCC T/O LINE#	LEVEL	OS	PAY GRADE	NUMBER	EQUIP. GROUP	WBS NUMBER	TRAINING TRACK #	SERVICE RTR	T/O #
8	OPRS	CE5642	E 4	116.00	1	11.4	0	.36	
9	ILMS	CTM-4811	E 5	33.00	1	11	0	.22	
10	OLMS	DS1617	E 5	45.00	1	11	0	.46	LCCM lists T/O

TABLE OF ORGANIZATION FOR ARMY.

LCC T/O LINE#	LEVEL	OS	PAY GRADE	NUMBER	EQUIP. GROUP	WBS NUMBER	TRAINING TRACK #	SERVICE RTR	T/O #
11	OPRD	36L30	E 5	36.00	1	11.4	0	.00	
12	GSUS	35K20	E 5	41.00	1	11.1	0	.24	
13	OLMS	24H20	E 4	28.00	1	11	0	.00	

NO PERSONNEL DATA LINES EXIST FOR MANUFACTURER.

TABLE OF ORG: GET, LIST, ADD, DELETE, CHANGE or SAVE personnel;
or get, create, or edit TRAINING track or course data
(EXPLAIN or RETURN)

? ADD

4. ADD personnel lines is selected

ENTER TABLE OF ORG: AIR Force, GENeral Schedule, NAVy, ARMy, MARine
Corps, MANufacturer (or RETurn)
Separate options with a space

? MAR

Enter the number of personnel lines to be input for MARINE CORPS.
(EXplain or RETurn)

? 1

Enter the following data separating items with a comma
Level, OS, Paygrade, Number, Equip group#, WBS#, Track#, RTR, Serv. T/O#,
Serv. T/O line#,

T/O LINE # 14 ? OPRD, 2851, E3, 66, 1, 11

TABLE OF ORG: GET, LIST, ADD, DELETE, CHAnge or SAVe personnel;
or get, create, or edit TRAINing track or course data
(EXplain or RETurn)

? DEL

THE TABLE OF ORGANIZATION HAS 14 LINES AT PRESENT

DELETE WHICH LINES ?

ENTER UP TO 25 LINE NUMBERS SEPARATING EACH WITH A SPACE
(EX.--45 30 2 23). 0 OR RETURN TO AVOID DELETIONS.

? 5

? FET

YOU NOW HAVE 13 LINES OF PERSONNEL DATA.

5. Add Marine Corps personnel

6. Add one line to the T/O

7. Additional personnel data
is entered. All data after
the WBS number (11) is optional
since the MOS (2851) is in the
system data base.

8. Delete personnel is selected

9. Delete T/O line #5

10. RET advises the model that
no more lines are to be deleted.

TABLE OF ORG: GET, LIST, ADD, DELETE, CHANGE or SAVE personnel;
or get, create, or edit TRAINING track or course data
(EXPLAIN or RETURN)

? CHA

Enter the T/O line number to be changed or RETURN? 8

CHANGE T/O LINE: LEVEL, OS, PAY grade, NUMBER, EQUIPMENT group,
WBS number, TRAINING track number, RTR,
SERVICE T/O number, SERVICE T/O LINE number or

RETURN? LEV

OLD LEVEL = ILMS ; NEW LEVEL? ILMD

Enter the T/O line number to be changed or RETURN? 8

CHANGE T/O LINE: LEVEL, OS, PAY grade, NUMBER, EQUIPMENT group,
WBS number, TRAINING track number, RTR,
SERVICE T/O number, SERVICE T/O LINE number
or RETURN? OS

OLD OS= CTM-4811 ;NEW OS? CTM-481H

Enter the T/O line number to be changed or RETURN? 4

CHANGE T/O LINE: LEVEL, PAY grade, NUMBER, EQUIPMENT group,
WBS number or RETURN? PAY

OLD PAYGRADE=GS 13 ; NEW PAYGRADE? GS14

Enter the T/O line number to be changed or RETURN? 5

CHANGE T/O LINE: LEVEL, OS, PAY grade, NUMBER, EQUIPMENT group,
WBS number, TRAINING track number, RTR, SERVICE
T/O number, SERVICE T/O LINE number or RETURN? NUM

OLD NUMBER = 11.00 ; NEW NUMBER ? 27

11. CHANGE personnel is selected
12. Change T/O line # 8

13. LEVEL is selected

14. OLD level is printed; new level
entered

15. Change T/O line # 8

16. Change Occupational specialty
17. Old OS is printed; new OS is
entered

18. Change T/O line #4

19. Change Pay Grade data
20. Old pay grade is printed;
new pay grade is entered

21. Change T/O line #5

22. Change the number of
personnel in the line
23. Old number is printed;
new number is entered

Enter the T/O line number to be changed or RETURN? 5

CHANGE T/O LINE: LEVEL, OS, PAY grade, NUMBER, Equipment group,
WBS number, TRAINING track number, RTR, SERVICE
T/O number, SERVICE T/O LINE number or RETURN? EQU
OLD EQUIP GROUP = 1 ;NEW EQUIP GROUP? 2

Enter the T/O line number to be changed or RETURN? 6

CHANGE T/O LINE: LEVEL, OS, PAY grade, NUMBER, Equipment group,
WBS number, TRAINING track number, RTR, SERVICE
T/O number, SERVICE T/O LINE number or RETURN? WBS
;NEW WBS NUMBER? 11.4
OLD WBS NUMBER=11

Enter the T/O line number to be changed or RETURN? RET

TABLE OF ORG: GET, LIST, ADD, DELETE, CHANGE or SAVE personnel;
or get, create, or edit TRAINING track or course data
(EXPLAIN or RETURN)

? SAV

File name (FILEABC or FILEABC,PASSWORD)

NAME: up to seven letters. PASSWORD up to eight letters.
? SAMFILE

Table of Org DATA ALREADY EXISTS FOR SAMFILE.

Replace the file(Y, N) ? Y

24. Change T/O line #5

25. Change the Equipment Group Assignment
26. Reassign to Equipment Group #2

27. Change T/O line #6

28. Change the WBS assignment
29. Reassign to WBS class 11.4

30. RETURN exits the T/O editor

31. SAVE T/O is selected

32. Name the file

33. Model advises that a file by that name
already exists

34. Replace the current file

Table of Org DATA WRITTEN FOR SAMFILE
 Training Track DATA ALREADY EXISTS FOR SAMFILE.
 Replace the file(Y, N) ? Y

35. Replace the current file

Training Track DATA WRITTEN FOR SAMFILE
 User Course DATA ALREADY EXISTS FOR SAMFILE.
 Replace the file(Y, N) ? Y
 User Course DATA WRITTEN FOR SAMFILE

36. Replace the current file

TABLE OF ORG: GET, LIST, ADD, DELETE, CHAnge or SAVE personnel;
 or get, create, or edit TRAINING track or course data
 (EXPLAIN or RETURN)

? RET

37. RETURN exits the Table of Organization
 module

Main: LIST, EDIT, REPORT, INFLATE, ANNUAL, DELIVER, TABLE of org.,
 NOTepad, CREATE, GET, SAVE, UNSave, HELP, DONE, CHARGE, (PERSONNEL)
 ?

LCCM returns to main

TABLE OF ORGANIZATION: Training Track and Course Data Files

The training track module is used to define the course(s) for the occupational specialties included in the table of organization. Training tracks are defined by service and consist of the course requirements as well as the number of PCS moves during the training. The course(s) for each training track may either be selected from the LCCM's training course data base or from additional courses added by the user in the COURSE file section of the training track module.

To obtain a listing of the courses available for service and/or civilian training, request the LIST option through EXPLAIN.

Main: LIST, EDIT, REPORT, INFLATE, ANNUAL, DELIVER, TABLE OF ORG.,
 NOTEPAD, CREATE, GET, SAVE, UNSAVE, HELP, DONE, CHARGE, (PERSONNEL)
 ? TAB

TABLE OF ORG: GET, LIST, ADD, DELETE, CHANGE or SAVE personnel;
 or get, create, or edit TRAINING track or course data
 (EXPLAIN or RETURN)

? TRA

TRAINING TRACK: GET or CREATE training track(s), get or create
 user course file, EXPLAIN, or RETURN? COU

GET or CREATE user course file (SYSTEM or RETURN)? CRE

Enter the number of course(s) to be added(RETURN or EXPLAIN)? 2
 Separate data entries with a comma

COURSE ID #: USR 1

Enter: Name, Service CIN, Length(days), PCS or TDY(P or T)

? COURSE1,1112111,14,T

Attrition rate, Fiscal Year of cost data, COST: MP, PROC, O&M, OPROC

? .09,1980,1200,0,800,0

COURSE ID #: USR 2

Enter: Name, Service CIN, Length(days), PCS or TDY(P or T)

? COURSE2,2223222,13,T

Attrition rate, Fiscal Year of cost data, COST: MP, PROC, O&M, OPROC

? .06,1980,100,300,550,0

GET, EDIT, LIST, or SAVE user course file(SYSTEM or RETURN)? SAV

File name (FILEABC or FILEABC,PASSWORD)

NAME: up to seven letters. PASSWORD up to eight letters.

? SAMFILE

1. TABLE of Org is selected

2. TRAINING track is selected

3. COURSE module is selected

4. CREATE courses is selected

5. Create 2 courses

6. Data for USR1 are entered

Costs are \$1200 for MILPAY,
 \$800 for O&M

7. Data for USR2 are entered

8. SAVE course data is selected

9. File is named SAMFILE

User Course DATA ALREADY EXISTS FOR SAMFILE.
 Replace the file(Y, N) ? Y
 User Course DATA WRITTEN FOR SAMFILE

GET, EDIT, LIST, or SAVE user course file(SYSTEM or RETURN)? LIS 10. LIST user courses is selected

USER TRAINING COURSES									
COURSE ID	NAME	FY	MP	PROC	O&M	COST	OPROC	DATE	UPDATED
USR 1	COURSE1	1980	1200.00	0.00	800.00	0.00	0.00	DATE	UPDATED
SERVICE CIN	PCS/TDY	LENGTH (DAYS)	ATTRITION RATE	DATE	CREATED	DATE	DATE	DATE	DATE
1112111	T	14	.09		12/08/81				
COURSE ID	NAME	FY	MP	PROC	O&M	COST	OPROC	DATE	UPDATED
USR 2	COURSE2	1980	100.00	300.00	550.00	0.00	0.00	DATE	UPDATED
SERVICE CIN	PCS/TDY	LENGTH (DAYS)	ATTRITION RATE	DATE	CREATED	DATE	DATE	DATE	DATE
2223222	T	13	.06		12/08/81				

LCCM lists user course data

LCCM lists user course data

LIST COURSE DATA: ARMY, AIR Force, NAVY, MARINE Corps, DOD, CIVILIAN, CONTRACTOR, USER or RETURN. Separate options with a space ? RET

GET, EDIT, LIST, or SAVE user course file(SYSTEM or RETURN)? EDI
 EDIT COURSE DATA FILE: ADD, DELETE, or CHANGE User courses (or RETURN)? ADD

Enter the number of course(s) to be added(RETURN or EXPLAIN)? 1
 Separate data entries with a comma

COURSE ID #: USR 3
 Enter: Name, Service CIN, Length(days), PCS or TDY(P or T)
 ? COURSE3,3338333,12,T
 Attribution rate, Fiscal Year of cost data, COST: MP, PROC, O&M, OPROC
 ? .02,1980,1650,0,0

- 11. RETURN exits the list option
- 12. EDIT course data is selected
- 13. ADD courses is selected
- 14. ADD one course
- 15. Course data is entered

GET, EDIT, LIST, or SAVE user course file(SYSTEM or RETURN)? EDI
 EDIT COURSE DATA FILE: ADD, DELETE, or CHANGE User courses
 (or RETURN)? DEL

Enter the course ID number to be deleted or RETURN
 ? USR3
 Course number USR 3 has been deleted

Enter the course ID number to be deleted or RETURN
 ? RET

GET, EDIT, LIST, or SAVE user course file(SYSTEM or RETURN)? EDI

EDIT COURSE DATA FILE: ADD, DELETE, or CHANGE User courses
 (or RETURN)? CHA

CHANGE COURSE DATA: Enter the course ID number or RETURN? USR2

CHANGE: NAME, Service CIN, LENGTH(days), PCS or TDY, ATTRITION rate,
 FISCAL year of cost data, COST, or RETURN
 ? COS

OLD COST DATA BY BUDGET CATEGORY:	MP--	100.00	PROC--	300.00	O&M--	550.00	OPROC--	0.00
Change budget category MP, PROC, O&M, or OPROC? <u>OPROC</u>								
Enter new PROC cost? <u>400</u>								
Enter new OPROC cost? <u>200</u>								

CHANGE COURSE DATA: Enter the course ID number or RETURN? USR2

CHANGE: NAME, Service CIN, LENGTH(days), PCS or TDY, ATTRITION rate,
 FISCAL year of cost data, COST, or RETURN
 ? NAM

OLD NAME IS COURSE2 ; NEW NAME? COURSENAME2

CHANGE COURSE DATA: Enter the course ID number or RETURN? RET

16. EDIT the course file
 17. DELETE course is selected
 18. Delete USR3 (USR3 is the course number assigned by the model)
 19. RETURN exits delete module
 20. EDIT the course file
 21. CHANGE course data is selected
 22. Change USR2
 23. Change COST data
 24. Budget categories to be changed are selected
 25. New cost data are entered
 26. Change USR2
 27. Change the course NAME
 28. Old name is printed; new name is entered
 29. RETURN exits the editor

GET, EDIT, LIST, or SAVE user course file(SYSTEM or RETURN)? LIS 30. LIST course data is selected

USER TRAINING COURSES									
COURSE ID	NAME	FY	MP	PROC	O&M	COST	OPROC	DATE	UPDATED
USR 1	COURSE1	1980	1200.00	0.00	800.00	0.00	0.00	DATE	UPDATED
SERVICE CIN	PCS/TDY	LENGTH (DAYS)	ATTRITION RATE	CREATED	DATE				
1112111	T	14	.09		12/08/81				
COURSE ID	NAME	FY	MP	PROC	O&M	COST	OPROC	DATE	UPDATED
USR 2	COURSENAME2	1980	100.00	400.00	550.00	200.00	200.00	DATE	UPDATED
SERVICE CIN	PCS/TDY	LENGTH (DAYS)	ATTRITION RATE	CREATED	DATE				
2223222	T	13	.06		12/08/81				

LIST COURSE DATA: ARMY, AIR Force, NAVY, MARINE Corps, DOD, CIVILIAN, CONTRACTOR, USER or RETURN. Separate options with a space ? RET

GET, EDIT, LIST, or SAVE user course file(SYSTEM or RETURN)? RET 31. RETURN exits the list option 32. RETURN exits the COURSE module

TRAINING TRACK: GET or CREate training track(s), get or create user COURSE file, EXPLAIN, or RETURN? CRE

Enter training tracks for AIR Force, CIVILIAN, MARINE Corps, NAVY, ARMY, or ALL (EXPLAIN or RETURN). Separate enteries with a space. ? AIR

Enter the number of training tracks to be entered for AIR FORCE. ? 1

For each training track, enter a maximum of ten(10) courses per line. Separate each course with a comma. After the Last line of courses input for the training track, type DONE.

33. CREate training tracks is selected

34. AIR Force training tracks are to be entered

35. Enter 1 training track for the AIR Force

Training track # 1
TRAINING COURSES
? USR1,USR2
? DON
NUMBER OF PCS MOVES
? 1

36. Data for track #1 is entered

TRAINING TRACK OPTIONS: GET, LISt, EDIt, or SAVe training track data;
get, create or edit user COURse file;
EXPLAIN or RETURN? SAV

37. SAVe training track data is selected

File name (FILEABC or FILEABC,PASSWORD)
NAME: up to seven letters. PASSWORD up to eight letters.
?SAMFILE

38. File is named

Training Track DATA ALREADY EXISTS FOR SAMFILE.
Replace the file(Y, N) ? Y
Training Track DATA WRITTEN FOR SAMFILE

39. Replace the existing file

User Course DATA ALREADY EXISTS FOR SAMFILE.
Replace the file(Y, N) ? Y
User Course DATA WRITTEN FOR SAMFILE

TRAINING TRACK OPTIONS: GET, LISt, EDIt, or SAVe training track data;
get, create or edit user COURse file;
EXPLAIN or RETURN? LIS

40. LISt training track data is selected

AIR FORCE TRAINING TRACKS

TRACK #	1	TRAINING COURSES	PCS MOVES	LCCM lists training track data
		USR1 USR2	1.00	

TRAINING TRACK OPTIONS: GET, LISt, EDIt, or SAVe training track data;
get, create or edit user COURse file;
EXPLAIN or RETURN? EDI

41. EDIt training track data is selected

EDIT TRAINING TRACKS: ADD, DELETE, CHAnge or REtUrN? ADD

Enter training tracks for AIR Force, CIVILian, MARine Corps, NAVY, ARMY, or ALL (EXplain or REtUrN). Separate enteries with a space.
? AIR

Enter the number of training tracks to be added for AIR FORCE. ? 1

For each training track, enter a maximum of ten(10) courses per line. Separate each course with a comma. After the Last line of courses input for the training track, type DONE.

Training track # 2

TRAINING COURSES

? USR1

? DON

NUMBER OF PCS MOVES

? 0

88

EDIT TRAINING TRACKS: ADD, DELETE, CHAnge or REtUrN? CHA

Enter the training track number to be changed or REtUrN? 2

ADD, DELETE, or CHAnge course data or change number of PCS moves
(or REtUrN)? ADD

Enter the course(s) to be added. Input a maximum of ten (10) courses per line separate course numbers with a comma. After last line of input, type DONE.

? USR2

? DON

Enter the training track number to be changed or REtUrN? 2

ADD, DELETE, or CHAnge course data or change number of PCS moves
(or REtUrN)? DEL

42. ADD tracks is selected

43. Add Air Force Training Tracks

44. Add one training track

45. Data for training track is entered

46. CHAnge training track data is selected

47. Change track 2

48. ADD courses is selected

49. Add USR2 to the training track

50. Change track 2

51. DELETE course(s) is selected

Enter course number(s) to be deleted. Input a maximum of ten (10) courses per line, separating course numbers with a comma. After the last line of data input, type DONE

? USR1

Course number USR1 has been deleted.

? DON

Enter the training track number to be changed or RETURN? 2

ADD, DELETE, or CHANGE course data or change number of PCS moves (or RETURN)? PCS

OLD NUMBER OF PCS MOVES IS 0.00;NEW NUMBER OF PCS MOVES? 1

Enter the training track number to be changed or RETURN? RET

EDIT TRAINING TRACKS: ADD, DELETE, CHANGE or RETURN? RET

TRAINING TRACK OPTIONS: GET, LIST, EDIT, or SAVE training track data; get, create or edit user Course file; Explain or RETURN? LIS

AIR FORCE TRAINING TRACKS

TRAINING COURSES

TRACK #	1	USR1	PCS MOVES
TRACK #	2	USR2	1.00
			1.00

TRAINING TRACK OPTIONS: GET, LIST, EDIT, or SAVE training track data; get, create or edit user Course file; Explain or RETURN? EDI

EDIT TRAINING TRACKS: ADD, DELETE, CHANGE or RETURN? ADD

Enter training tracks for AIR Force, CIVILIAN, MARINE Corps, NAVY, ARMY, or ALL (EXPLAIN or RETURN). Separate entries with a space.
? AIR

52. Delete USR1 from track 2

53. Change track 2

54. PCS moves is to be changed

55. Old number of PCS moves is printed; new number is entered

56. RETURN exits the track editor

57. RETURN exits the training track edit module

58. LIST tracks is selected

LCCM Lists training tracks

59. EDIT option is selected

60. ADD tracks is selected

61. Add Air Force Training Tracks

Enter the number of training tracks to be added for AIR FORCE. ? 1 62. Add one Air Force Training Track

For each training track, enter a maximum of ten(10) courses per line. Separate each course with a comma. After the Last line of courses input for the training track, type DONE.

Training track # 3 63. Data for new track is entered

TRAINING COURSES

? USR1

? DON

NUMBER OF PCS MOVES

? 1

EDIT TRAINING TRACKS: ADD, DELETE, CHANGE or RETURN? RET

TRAINING TRACK OPTIONS: GET, LIST, EDIT, or SAVE training track data;
get, create or edit user Course file;
EXPLAIN or RETURN? LIS

64. RETURN exits the training track edit module

65. LIST tracks is selected

AIR FORCE TRAINING TRACKS

TRAINING COURSES

TRACK # 1 USR1

TRACK # 2 USR2

TRACK # 3 USR1

TRAINING TRACK OPTIONS: GET, LIST, EDIT, or SAVE training track data;
get, create or edit user Course file;
EXPLAIN or RETURN? EDI

PCS MOVES

1.00

1.00

1.00

LCCM lists training tracks

EDIT TRAINING TRACKS: ADD, DELETE, CHANGE or RETURN? DEL

DELETE: How many training tracks? 1

Enter training track to be deleted? 3

Training Track Number 3 has been deleted.

66. EDIT training tracks is selected

67. DELETE track is selected

68. Delete training track #3

EDIT TRAINING TRACKS: ADD, DELETE, CHANGE or RETURN? RET 69. RETURN exits the training track editor

TRAINING TRACK OPTIONS: GET, LIST, EDIT, or SAVE training track data; get, create or edit user course file; EXPLAIN or RETURN? LIS

AIR FORCE TRAINING TRACKS

TRACK #	1	USR1	TRAINING COURSES	PCS MOVES
TRACK #	2	USR1	USR2	1.00
				1.00

TRAINING TRACK OPTIONS: GET, LIST, EDIT, or SAVE training track data; get, create or edit user course file; EXPLAIN or RETURN? RET

TABLE OF ORG: GET, LIST, ADD, DELETE, CHANGE or SAVE personnel; or get, create, or edit TRAINING track or course data (EXPLAIN or RETURN) ? RET

70. RETURN exits the training track module

71. RETURN exits the T/O module

Main: LIST, EDIT, REPORT, INFLATE, ANNUAL, DELIVER, TABLE of org., NOTEPAD, CREATE, GET, SAVE, UNSAVE, HELP, DONE, CHARGE, (PERSONNEL) ?

LCCM returns to main

TABLE OF ORGANIZATION: Manufacturer Personnel

Manufacturer personnel may be included in the table of organization. The model will request the file name of a terminal format file, created outside the LCCM, for a one to four character paygrade and corresponding hourly rate. Manufacturer labor may be entered for any personnel level.

To create a terminal format file for manufacturer designated paygrades and labor rates the user must become familiar with the operating system on the computer. Following is an example of a labor rate file and operating system commands necessary to build and edit the file:

*NEW RATES

*BUILD
SPEAKT

1981
MFG1 22.00
MFG2 29.00
MFG3 36.00
MFG4 42.00
MFG5 54.00
*SAV

*LIS
1981
MFG1 22.00
MFG2 29.00
MFG3 36.00
MFG4 42.00
MFG6 54.00

*EDI SEQ
*LIS

100 1981
110 MFG1 22.00
120 MFG2 29.00
130 MFG3 36.00
140 MFG4 42.00
150 MFG6 54.00

1. Enter "NEW" followed by a 1-8 character file name.
2. Enter "BUILD"
3. Enter date of cost data on first line.
4. Enter 1-4 character manufacturer designated pay grade code followed by a blank space and the labor cost per hour.
5. Enter 2 carriage returns; following the "*" enter "SAV" to save your data.
6. To list the data, enter "LIS".
7. The "EDI SEQ" command will line number the file to allow editing.

*TEX REP MFG6, MG6, 150
 *EDI LIS 150
 150 MG6 54.00
 *TEX REP 54.00,55.00,150
 *EDI LIS 150
 150 MG6 55.00
 *160 MFG7 65.00

LIS
 100 1981
 110 MFG1 22.00
 120 MFG2 29.00
 130 MFG3 36.00
 140 MFG4 42.00
 150 MG6 55.00
 160 MFG7 65.00

*EDI DES

*LIS

1981

MFG1 22.00
 MFG2 29.00
 MFG3 36.00
 MFG4 42.00
 MG6 55.00
 MFG7 65.00

*REP

*

Main: LIS, EDIT, REPORT, INFLATE, ANNUAL, DELIVER, TABLE OF ORG.,
 NOTEPAD, CREATE, GET, SAVE, UNSAVE, HELP, DONE, CHARGE, (PERSONNEL)
 ? TAB

TABLE OF ORG: GET, LIST, ADD, DELETE, CHANGE OR SAVE PERSONNEL;
 or get, create, or edit TRAINING track or course data
 (EXPLAIN OR RETURN)

? ADD

8. To edit data enter "TEX REP" followed by
 substring to be replaced, new substring and
 line number.

9. "EDI DES" command removes line numbers
 which allows the LCCM to interpret the data.

10. "REP" replaces the original file with
 the corrected file.

11. To add or create manufacturer T/O
 lines, "TAB" is requested from main.

12. "ADD" personnel is requested.

ENTER TABLE OF ORG: AIR Force, General Schedule, NAVY, ARMY, MARINE
Corps, Manufacturer (or RETURN)

Separate options with a space
? MAN

13. Manufacturer personnel is requested.

Enter the number of personnel lines to be input for MANUFACTURER.
(EXPLAIN or RETURN)
? 2

Enter FILE NAME for manufacturer personnel pay grades and cost data or
RETURN? RATES
Enter the following data separating items with a comma
Level, Pay grade, Number, Equip group#, WBS#

14. File name for manufacturer data is
entered.

T/O LINE# 14? HELP

15. HELP provides instructions for entering
data.

ENTER THE PERSONNEL INFORMATION USING THE FOLLOWING CODES
AND SEPARATING THE DATA ITEMS WITH A SPACE.

FOR "LEVEL" ENTER ONE OF THE FOLLOWING CODES:

DEMONSTRATION AND VALIDATION

PMDD - PROGRAM MANAGEMENT

PEDD - PRODUCTIBILITY ENGINEERING & PLANNING

ENDD - ENGINEERING, DTC, RAM

TODD - TOOLING

FADD - FABRICATION

ASDD - DRAFTING

QCDD - QUALITY & CONTROL, TEST

FULL SCALE DEVELOPMENT

PMFD - PROGRAM MANAGEMENT

PEFD - PRODUCTIBILITY ENGINEERING & PLANNING

ENFD - ENGINEERING, DTC, RAM

TOFD - TOOLING

FAFD - FABRICATION

ASFD - DRAFTING

QCFD - QUALITY CONTROL, TEST

PRODUCTION

- PMPD - PROGRAM MANAGEMENT
- PEPD - PRODUCTIBILITY ENGINEERING & PLANNING
- ENPD - ENGINEERING
- TOPD - TOOLING
- FAPD - FABRICATION
- ASPD - ASSEMBLY AND SUPPORT LABOR
- QCPD - QUALITY CONTROL, TEST
- OPERATING AND MAINTENANCE
- OPRS or OPRD - OPERATOR
- OLMS or OLMD - ORGANIZATIONAL MAINTENANCE
- ILMS or ILMD - INTERMEDIATE LEVEL MAINTENANCE
- DSUS or DSUD - DIRECT SUPPORT UNIT
- DCTS or DCTD - DSU CONTACT TEAM
- GSUS or GSUD - GENERAL SUPPORT UNIT
- GCTS or GCTD - GSU CONTACT TEAM
- SWPD - SOFTWARE PERSONNEL
- SWMD - SOFTWARE MAINTENANCE & DIAGNOSTICS
- INDD - INDIRECT PERSONNEL

Return to request another option, and
 Help to reprint all personnel data entry directions.

UNDER OCCUPATIONAL SPECIALTY(OS) ENTER THE APPROPRIATE CODE.
 FOR GOVERNMENT SERVICES OR MANUFACTURER, OS IS NOT USED.
 UNDER PAYGRADE ENTER AS E1 TO E9, W1 TO W4, O1 TO O9,
 GS01 TO GS17, OR WB01 TO WB16, AS APPLICABLE

THE FOLLOWING PAYGRADES AND RATES PER HOUR APPLY TO MANUFACTURER
 PERSONNEL:

PAYGRADE	\$/HR
MFG1	22.00
MFG2	29.00
MFG3	36.00
MFG4	42.00
MFG6	54.00

Level, Pay grade, Number, Equip group#, WBS#

T/O LINE# 14? TOFD, MFG3, 3.5, 1, 11.5

T/O LINE# 15? QCFD, MFG4, 2, 1, 11.5

16. Manufacturer data is entered.

TABLE OF ORG: GET, LIST, ADD, DELETE, CHANGE or SAVE personnel;
or get, create, or edit TRAINING track or course data
(EXPLAIN or RETURN)

? LIS

LIST T/O: AIR Force, GENERAL Schedule, MARINE Corps, ARMY, NAVY,
MANUFACTURER, ALL (or RETURN)

? MAN

TABLE OF ORGANIZATION FOR MANUFACTURER.

LCC T/O LINE#	LEVEL	PAY GRADE	NUMBER	EQUIP. GROUP	WBS NUMBER
14	TOFD	MFG3	3.50	1	11.5
15	QCFD	MFG4	2.00	1	11.5

Manufacturer personnel is listed.

TABLE OF ORG: GET, LIST, ADD, DELETE, CHANGE or SAVE personnel;
or get, create, or edit TRAINING track or course data
(EXPLAIN or RETURN)

? CHA

Enter the T/O line number to be changed or RETURN? 14

CHANGE T/O LINE: LEVEL, PAY grade, NUMBER, EQUIPMENT group, WBS number
or RETURN? LEV

OLD LEVEL= TOFD ; NEW LEVEL? FAFD

17. Manufacturer personnel is edited.

Enter the T/O line number to be changed or RETURN? 15

CHANGE T/O LINE: LEVEL, PAY grade, NUMBER, EQUIPMENT group, WBS number
or RETURN? PAY

OLD PAYGRADE=MFG4 ; NEW PAYGRADE? MFG3

Enter the T/O line number to be changed or RETURN? 15
CHANGE T/O LINE: LEVEL, PAY grade, NUMBER, EQUIPMENT group, WBS number
or RETURN? NUM
OLD NUMBER = 2.00 ; NEW NUMBER ? 5

Enter the T/O line number to be changed or RETURN? 14
CHANGE T/O LINE: LEVEL, PAY grade, NUMBER, EQUIPMENT group, WBS number
or RETURN? EQU
OLD EQUIP GROUP = 1 ; NEW EQUIP GROUP? 2

Enter the T/O line number to be changed or RETURN? RET

18. RETURN exits the T/O charge module

TABLE OF ORG: GET, LIST, ADD, DELETE, CHANGE or SAVE personnel;
or get, create, or edit TRAINING track or course data
(EXPLAIN or RETURN)

? RET

19. RETURN exits the T/O module

Main: LIST, EDIT, REPORT, INFLATE, ANNUAL, DELIVER, TABLE of org.,
NOTepad, CREATE, GET, SAVE, UNSave, HELP, DONE, CHARGE, (PERSONNEL)
?

LCCM returns to main

"NOT" Notepad

The "Notepad" module provides a means for the user to record comments regarding the validity of the data values, any assumptions made for the analysis, etc. for inclusion on the output reports. A total of ten comment lines may be entered for each phase.

Main: LIST, EDIT, REPORT, INFLATE, ANNUAL, DELIVER, TABLE OF ORG.,
NOTEPAD, CREATE, GET, SAVE, UNSAVE, HELP, DONE, CHARGE, (PERSONNEL)
? NOT

1. NOTEPAD is selected from main

NOTEPAD: CREATE, GET, EDIT, LIST, SAVE, HELP or RETURN? CRE

2. CREATE comments is selected

Enter comments for RDT&E

Enter *** to skip to the next phase?

THE R&D PHASE WILL BE PROLONGED DUE TO MANPOWER CONSTRAINTS
? ***

Enter comments for PROD

Enter *** to skip to the next phase?

THE PRODUCTION PHASE WILL BE SHORTENED DUE TO THE AVAILABILITY OF
? SOME COMPONENTS IN CURRENT PRODUCTION LEVELS
? ***

3. Comments for each phase
are entered

Enter comments for O&S

Enter *** to skip to the next phase?

THE O&S PHASE WILL BE PROLONGED DUE TO DELIVERY DELAYS
? ***

NOTEPAD: CREATE, GET, EDIT, LIST, SAVE, HELP or RETURN? LIS

4. LIST comments is selected

COMMENTS FOR RDT&E

THE R&D PHASE WILL BE PROLONGED DUE TO MANPOWER CONSTRAINTS

COMMENTS FOR PROD

THE PRODUCTION PHASE WILL BE SHORTENED DUE TO THE AVAILABILITY OF
SOME COMPONENTS IN CURRENT PRODUCTION LEVELS

COMMENTS FOR O&S

THE O&S PHASE WILL BE PROLONGED DUE TO DELIVERY DELAYS

LCCM lists comments for each phase

- 5. SAVE comments is requested
- 6. File name is entered
- 7. EDIT comments is selected
- 8. REPLACE line is selected
- 9. New line is entered
- 10. LIST single line is requested
- 11. LOCate substring is requested

NOTEPAD: CREATE, GET, EDIT, LIST, SAVE, HELP or RETURN? SAV
 File Name: (FILEABC or FILEABC,PASSWORD)
 NAME: up to seven letters. PASSWORD: up to eight letters.
 ? SAMFILE

Comments DATA WRITTEN FOR SAMFILE

NOTEPAD: CREATE, GET, EDIT, LIST, SAVE, HELP or RETURN? EDI

YOUR PHASE IS: "RDT&E"
 EDIT options are: REPLACE,LIST,INSERT,CHANGE,LOCate,COPY,DELETE,
 RETURN,HELP,***? REP
 INPUT THE LINE NUMBER FOR THE LINE TO BE REPLACED.
 ? 1

INPUT THE NEW LINE
 ? THE R&D PHASE WILL BE PROLONGED 6 MONTHS DUE TO MANPOWER CONSTRAINTS

YOUR PHASE IS: "RDT&E"
 EDIT options are: REPLACE,LIST,INSERT,CHANGE,LOCate,COPY,DELETE,
 RETURN,HELP,***? LIS
 INPUT THE LINE NUMBER FOR THE LINE YOU WANT TO LIST
 ? 1

1 THE R&D PHASE WILL BE PROLONGED 6 MONTHS DUE TO MANPOWER CONSTRAINTS
 YOUR PHASE IS: "RDT&E"
 EDIT options are: REPLACE,LIST,INSERT,CHANGE,LOCate,COPY,DELETE,
 RETURN,HELP,***? LOC
 INPUT THE SUBSTRING TO BE FOUND
 ? 6

1 THE R&D PHASE WILL BE PROLONGED 6 MONTHS DUE TO MANPOWER CONSTRAINTS

NOTEPAD: CReate, GEt, EDIt, SAVe, HELp or REtUrN? RET 16. REtUrN exits the Notepad module

Main: LISt, EDIt, REpOrt, INFLate, ANNUal, DELIver, TABLe of org.,
NOTepad, CReate, GEt, SAVe, UNSave, HELp, DONE, CHARge, (PERSONnel)
? LCCM returns to main

"SAV" Save

The "Save" option from the main module of the LCCM provides the capability to save all the data as entered for each module. This option exits within each module to enable the user to save the data entered periodically throughout the model.

(Note: It is recommended that the save option be utilized frequently as any disconnection which occurs during execution (i.e., TELENET/TYMNET disconnection) will result in a loss of any data not saved.)

Main: LISt, EDIt, REpOrt, INFLate, ANNUal, DELIver, TABLe of org.,
NOTepad, CReate, GEt, SAVe, UNSave, HELp, DONE, CHARge, (PERSONnel)
? SAV

1. SAVe option is selected from main

File name (FILEABC or FILEABC,PASSWORD)

NAME: up to seven letters. PASSWORD up to eight letters.

?NEWNAME

2. File name is entered

WBS DATA WRITTEN FOR NEWNAME
System DATA WRITTEN FOR NEWNAME
Table of Org DATA WRITTEN FOR NEWNAME
Deployment DATA WRITTEN FOR NEWNAME
Spread DATA WRITTEN FOR NEWNAME
Inflation DATA WRITTEN FOR NEWNAME
Comments DATA WRITTEN FOR NEWNAME
Training Track DATA WRITTEN FOR NEWNAME
User Course DATA WRITTEN FOR NEWNAME

Data is saved

Main: LISt, EDIt, REpOrt, INfLate, ANNuAl, DELIver, TABLe of org.,
 NOTepad, CREate, GEt, SAve, UNSave, HELp, DONE, CHARge, (PERSONnel) LCCM returns to main
 ?

"UNS" Unsave

The "Unsave" option should be utilized when the data contained in the file is no longer needed for future analysis. All files created and saved are included in the user's catalog. Each user is charged for the storage costs associated with the files contained in the catalog.

Main: LISt, EDIt, REpOrt, INfLate, ANNuAl, DELIver, TABLe of org.,
 NOTepad, CREate, GEt, SAve, UNSave, HELp, DONE, CHARge, (PERSONnel)
 ? UNS

1. UNSave option is requested

2. File name is entered

Each data file is selected to be deleted separately

File name (FILEABC or FILEABC,PASSWORD)

NAME: up to seven letters. PASSWORD up to eight letters.

?NEWNAME

WBS DATA EXISTS FOR NEWNAME. Delete the file(Y,N) ? Y

WBS DATA DELETED FOR NEWNAME.

System DATA EXISTS FOR NEWNAME. Delete the file(Y,N) ? Y

System DATA DELETED FOR NEWNAME.

Table of Org DATA EXISTS FOR NEWNAME. Delete the file(Y,N) ? Y

Table of Org DATA DELETED FOR NEWNAME.

Deployment DATA EXISTS FOR NEWNAME. Delete the file(Y,N) ? Y

Deployment DATA DELETED FOR NEWNAME.

Spread DATA EXISTS FOR NEWNAME. Delete the file(Y,N) ? Y

Spread DATA DELETED FOR NEWNAME.

Inflation DATA EXISTS FOR NEWNAME. Delete the file(Y,N) ? Y

Inflation DATA DELETED FOR NEWNAME.

Comments DATA EXISTS FOR NEWNAME. Delete the file(Y,N) ? Y

Comments DATA DELETED FOR NEWNAME.

Training Track DATA EXISTS FOR NEWNAME. Delete the file(Y,N) ? Y

Training Track DATA DELETED FOR NEWNAME.

User Course DATA EXISTS FOR NEWNAME. Delete the file(Y,N) ? Y

User Course DATA DELETED FOR NEWNAME.

Main: LISt, EDIt, REpOrt, INfLate, ANNuAl, DELIver, TABLe of org.,
NOTepad, CREate, GET, SAVe, UNSave, HELp, DONE, CHARge, (PERSONnel)
?

LCCM returns to main

"HEL" Help

The "Help" option from main may be entered to list the macro options for Version III. This option may also be entered throughout the LCCM to provide complete instructions and/or information regarding the current module in execution.

Main: LISt, EDIt, REpOrt, INfLate, ANNuAl, DELIver, TABLe of org.,
NOTepad, CREate, GET, SAVe, UNSave, HELp, DONE, CHARge, (PERSONnel)
? HEL

Main user options are:

To begin, you must GET or CREate a data file

The following options can be used once you have a data file:

EDIt: change values in an existing data file

LISt values in existing data file

DELIvery schedule and rates: enter or edit

TABLe of organization: enter or edit

NOTepad: enter or edit user notes for reports

INfLate: enter or edit rates, change base years, use in reports

ANNuAl spending rates: enter or edit

REpOrt writer

SAVe your data for future use

UNSave to remove an existing data file

1. HELp is requested

Complete options are listed

HELP to get this list again

DONE to quit

CHARGE to get your computer usage for this session

PERSONNEL cost factors: enter or edit. (this is password protected)

Main: LIST, EDIT, REPORT, INFLATE, ANNUAL, DELIVER, TABLE of org.,

NOTepad, CREATE, GET, SAVE, UNSave, HELP, DONE, CHARGE, (PERSONNEL)

?

LCCM returns to main

"CHA" Charge

The "Charge" option may be requested from main to determine the current charge statistics.
The number of connect minutes and CRUs used is provided.

Main: LIST, EDIT, REPORT, INFLATE, ANNUAL, DELIVER, TABLE of org.,

NOTepad, CREATE, GET, SAVE, UNSave, HELP, DONE, CHARGE, (PERSONNEL)

? CHA

1. CHARGE is requested

TERMINAL TIME SO FAR : 19.53 MINUTES

CRU'S : 82.6026

LCCM lists current charges

Main: LIST, EDIT, REPORT, INFLATE, ANNUAL, DELIVER, TABLE of org.,

NOTepad, CREATE, GET, SAVE, UNSave, HELP, DONE, CHARGE, (PERSONNEL)

?

LCCM returns to main

"DON" Done

The "Done" option from main exits the LCCM. To disconnect from DTSS the "BYE" command must be entered.

Main: LISt, EDIt, REPort, INFLate, ANNUal, DELiver, TABle of org.,
NOTepad, CREate, GET, SAVE, UNSave, HELP, DONE, CHARge, (PERSONnel)
? DON

1. DONE is requested

TERMINAL TIME SO FAR : 19.78 MINUTES

CRU'S : 83.6541

stop LCC

*

APPENDIX A

Appendix A contains a sample of each output report available for Version 5 of the LCCM. Additional report options will be added over time.

The Army LCC Matrix Matrix contains costs by WBS class. The total column for this report includes system level costs not assigned to individual WBS items.

DESIGN-TO-UNIT PRODUCTION TABLE FOR SAMPLE

DATE 12/08/81 TIME 15:18:20

UNIT ID	NAME	DTUPC	QUANTITY	
			USED FOR UPC ESTIMATE	LOT BUY QUANTITY
1	MASS-STORAGE-DEVICE	8646.08	80.	150.
2	MASS-MEMORY	39932.71	80.	130.
3	MICRO-COMPUTER	8444.07	80.	125.
4	CONTROL-PANEL	13503.75	80.	120.
5	COMPUTER-PROGRAMS	11968.00	1.	1.

LIFE CYCLE COST TABLE FOR SAMPLE

COSTS IN THOUSANDS OF CONSTANT 1980 DOLLARS.					
DATE 12/08/81		TIME 15:18:33			
LIFE CYCLE COST ELEMENTS	LEVEL	LEVEL	LEVEL	SUB	
STRUCTURE (BY LEVEL)	3	2	1	ELEM	ELEM
100 RESEARCH & DEVELOPMENT					
110 DEMONSTRATION & VALIDATION					1723.
111 CONTRACTOR				1203.	
111.11 PRIME MISSION EQUIP (PME)		483.			
111.11.3 COMMUNICATIONS	52.				
111.11.4 AUTO DATA PROCESSING EQUIP	401.				
111.11.5 COMPUTER PROGRAMS	30.				
111.12 SYSTEM, PROJECT MANAGEMENT		148.			
111.13 SYSTEM TEST & EVALUATION		117.			
111.14 TRAINING		139.			
111.15 DATA		128.			
111.17 SOFTWARE CENTER		189.			
112 GOVERNMENT				520.	
112.11 GOVT FURN EQUIP(GFE)		242.			
112.12.2 PROGRAM MANAGEMENT CIVILIAN	184.				
112.12.3 PGM MGT CONTRACTOR SUPPORT	58.				
112.13.1 TEST SITE ACTIVATION		189.			
112.13.2 DEVELOP TEST & EVAL (DT&E)	35.				
112.13.3 OPRTNL TEST & EVAL (OT&E)	42.				
112.14 TRAINING		89.			
120 FULL SCALE DEVELOPMENT					1687.
121 CONTRACTOR				1687.	
121.11 PRIME MISSION EQUIP (PME)		344.			
121.11.3 COMMUNICATIONS	46.				
121.11.4 AUTO DATA PROCESSING EQUIP	282.				
121.11.5 COMPUTER PROGRAMS	16.				
121.12 SYSTEM, PROJECT MANAGEMENT		21.			
121.12.1 SYSTEM ENGINEERING	10.				
121.12.2 PROJECT MANAGEMENT	12.				
121.13 SYSTEM TEST & EVALUATION		280.			
121.13.1 MOCKUPS	165.				
121.13.2 TEST & EVALUATION SUPPORT	66.				
121.13.3 TEST FACILITIES	49.				
121.14 TRAINING		72.			
121.15 DATA		68.			
121.17 SOFTWARE CENTER		185.			
122 GOVERNMENT			717.		
122.12 PROGRAM MNGMNT		457.			
122.12.2 PROGRAM MANAGEMENT CIVILIAN	369.				
122.12.3 PGM MGT CONTRACTOR SUPPORT	88.				
122.13.1 TEST SITE ACTIVATION		146.			
122.13.2 DEVELOP TEST & EVAL (DT&E)	29.				
122.13.3 OPRTNL TEST & EVAL (OT&E)	56.				
122.14 TRAINING		115.			
TOTAL COSTS FOR RESEARCH AND DEVELOPMENT					3411.

COSTS IN THOUSANDS OF CONSTANT 1980 DOLLARS.					
DATE 12/08/81		TIME 15:20:26			
LIFE CYCLE COST ELEMENTS	LEVEL	LEVEL	LEVEL	SUB	
STRUCTURE (BY LEVEL)	3	2	1	ELEM	ELEM
200 PRODUCTION					
210 PRODUCTION (NON-RECURRING)					1726.
211 CONTRACTOR			1053.		
211.11 PRIME MISSION EQUIP		13.			
211.11.3 COMMUNICATIONS	2.				
211.11.4 AUTO DATA PROCESSING EQUIP	8.				
211.11.5 COMPUTER PROGRAMS	2.				
211.12 SYSTEM/PROJECT MNGMNT		245.			
211.12.1 SYSTEM ENGINEERING	119.				
211.12.2 PROJECT MANAGEMENT	126.				
211.13 TRAINING		175.			
211.13.1 EQUIPMENT	99.				
211.13.2 SERVICES	38.				
211.13.3 FACILITIES	38.				
211.14 PRODUCTION STARTUP		189.			
211.15 DATA		245.			
211.17 SYSTEM TEST & EVAL SUPT		122.			
211.18 SOFTWARE CENTER		22.			
211.19 CONTRACTOR TECH SUPPORT		43.			
212.1 GOVERNMENT			672.		
212.12 INITIAL TRAINING		65.			
212.13 SYSTEM TEST & EVALUATION		170.			
212.13.1 PROD ACPT TEST&EVAL(PATE)	73.				
212.13.2 OPRTNL TEST & EVAL(OT&E)	97.				
212.14 TEST SITE ACTIVATION		39.			
212.15 PROGRAM MANAGEMENT		398.			
212.15.2 PROGRAM MANAGEMENT CIVILIAN	352.				
212.15.3 PGM MNGMNT CONTRACTOR SUPT	46.				
212.17 INVENTORY MANAGEMENT		1.			
220 PRODUCTION(RECURRING)					11981.
221 CONTRACTOR			11655.		
221.11 PRIME MISSION EQUIP		9176.			
221.11.3 COMMUNICATIONS	1620.				
221.11.4 AUTO DATA PROCESSING EQUIP	7544.				
221.11.5 COMPUTER PROGRAMS	12.				
221.16 ENGINEERING CHANGES		333.			
221.18 INITIAL SPARES/REPAIR PARTS		1835.			
222 GOVERNMENT			326.		
222.12 QUALITY CONTROL & INSPECT		119.			
222.13 TRANSPORTATION		49.			
222.14 OPERATIONAL/SITE ACTIVATION		91.			
222.18 SYSTEM TEST & EVAL		67.			
TOTAL COSTS FOR PRODUCTION					13706.

COSTS IN THOUSANDS OF CONSTANT 1980 DOLLARS.					
DATE 12/08/81		TIME 15:22:08			
LIFE CYCLE COST ELEMENTS	LEVEL	LEVEL	LEVEL	SUB	
STRUCTURE (BY LEVEL)	3	2	1	ELEM	ELEM
300 OPERATIONS AND SUPPORT					
310 OPERATIONS					26359.
311 OPERATOR PERSONNEL				24302.	
311.1 CREW			24302.		
311.1.1 MILITARY CREW		24302.			
BASE PAY AND ALLOWANCES	13820.				
REPLACEMENT TRAINING	5742.				
HEALTH CARE	612.				
PERM CHANGE OF STATION	1267.				
RETIREMENT	1342.				
TRANS,PRIS,PATIENTS	456.				
BASE OPERATING SUPT	1063.				
313 ENERGY CONSUMPTION				11.	
313.2 ELECTRIC POWER			11.		
314 OPERATIONAL FACILITIES				1920.	
316 OPERATIONAL TRANSPORTATION				126.	
320 MAINTENANCE					5760.
321 ORGANIZATIONAL MAINTENANCE				310.	
321.1 PERSONNEL			90.		
321.1.1 MILITARY MAINT PERS		90.			
BASE PAY AND ALLOWANCES	43.				
REPLACEMENT TRAINING	26.				
HEALTH CARE	3.				
PERM CHANGE OF STATION	2.				
RETIREMENT	5.				
TRANS,PRIS,PATIENTS	1.				
BASE OPERATING SUPT	9.				
321.4 ORG MAINT FACILITIES			220.		
322 INTERMEDIATE MAINTENANCE				3132.	
322.1 INTER MAINT PERSONNEL			31.		
322.1.1 MILITARY MAINT PERS		31.			
BASE PAY AND ALLOWANCES	15.				
REPLACEMENT TRAINING	8.				
HEALTH CARE	1.				
PERM CHANGE OF STATION	1.				
RETIREMENT	2.				
TRANS,PRIS,PATIENTS	0.				
BASE OPERATING SUPT	3.				
322.2 MAINT MATERIAL			1.		
322.2.1 DISCARDED SPARES		1.			
322.3 TRANSPORTATION			0.		
322.4 INTER MAINT FACILITIES			3100.		
323 DEPOT REPAIR				1348.	
323.1 LABOR			1345.		
323.2 MATERIAL			3.		

OPERATIONS AND SUPPORT (CONTINUED)

COSTS IN THOUSANDS OF CONSTANT 1980 DOLLARS.					
DATE 12/08/81			TIME 15:24:07		
LIFE CYCLE COST ELEMENTS	LEVEL	LEVEL	LEVEL	SUB	
STRUCTURE (BY LEVEL)	3	2	1	ELEM	ELEM
324 DEPOT OVERHAUL				605.	
324.1 LABOR			346.		
324.2 MATERIAL CHARGES			259.		
325 OPER SOFTWARE SUPPORT				204.	
325.3 CONTRACT S/W MAINTENANCE			204.		
326 MAINT SOFTWARE SUPPORT				81.	
326.3 CONTRACT S/W MAINTENANCE			81.		
327 CONTRACT MAINTENANCE				80.	
340 SUPPLY SUPPORT					14.
343 INVENTORY ADMINISTRATION				14.	
343.1 INVENTORY MANAGEMENT			14.		
350 TECH DATA REVISIONS					335.
TOTAL COSTS FOR OPERATIONS AND SUPPORT					32468.
TOTAL LIFE CYCLE COSTS					49585.

ANNUAL LIFE CYCLE COSTS FOR SAMPLE

COSTS IN THOUSANDS OF CONSTANT 1980 DOLLARS.						
DATE 12/08/81		TIME 15:25:01				
LIFE CYCLE COST ELEMENTS		FY1979	FY1980	FY1981	FY1982	FY1983
100	R & D					
110	CONCPT EXPL & VALID	623.	1100.	0.	0.	0.
111	CONTRACTOR	421.	782.	0.	0.	0.
112	GOVERNMENT	202.	318.	0.	0.	0.
120	FULL SCALE DEVEL	0.	38.	647.	738.	263.
120.1	CONTRACTOR	0.	22.	372.	424.	151.
120.2	GOVERNMENT	0.	16.	275.	314.	112.
TOTAL RESEARCH & DEVELOPMENT		623.	1138.	647.	738.	263.

COSTS IN THOUSANDS OF CONSTANT 1980 DOLLARS.					
DATE 12/08/81		TIME 15:25:45			
LIFE CYCLE COST ELEMENTS		TOTAL			
100	R & D				
110	CONCPT EXPL & VALID	1723.			
111	CONTRACTOR	1203.			
112	GOVERNMENT	520.			
120	FULL SCALE DEVEL	1687.			
120.1	CONTRACTOR	970.			
120.2	GOVERNMENT	717.			
	TOTAL RESEARCH & DEVELOPMENT	3411.			

COSTS IN THOUSANDS OF CONSTANT 1980 DOLLARS.						
DATE 12/08/81		TIME 15:26:13				
LIFE CYCLE COST ELEMENTS		FY1984	FY1985	FY1986	FY1987	TOTAL
200	PRODUCTION					
210	NON-RECURRING	1726.	0.	0.	0.	1726.
211.1	CONTRACTOR	1053.	0.	0.	0.	1053.
212.1	GOVERNMENT	672.	0.	0.	0.	672.
220	RECURRING	3661.	3994.	3994.	333.	11981.
221.1	CONTRACTOR	3561.	3885.	3885.	324.	11655.
222.1	GOVERNMENT	100.	109.	109.	9.	326.
TOTAL	PRODUCTION	5386.	3994.	3994.	333.	13706.

COSTS IN THOUSANDS OF CONSTANT 1980 DOLLARS.					
DATE 12/08/81		TIME 15:26:40			
LIFE CYCLE COST ELEMENTS	FY1987	FY1988	FY1989	FY1990	FY1991

300 OPERATIONS AND SUPPORT					
310 OPERATIONS	206.	1853.	2608.	2636.	2636.
311 OPERATOR PERSONNEL	190.	1709.	2405.	2430.	2430.
311.1 CREW	190.	1709.	2405.	2430.	2430.
311.2 INDIRECT PERSONNEL	0.	0.	0.	0.	0.
312 MATERIAL CONSUMPTION	0.	0.	0.	0.	0.
313 ENERGY CONSUMPTION	0.	1.	1.	1.	1.
314 OPERATIONAL FACILITIES	15.	135.	190.	192.	192.
315 EQUIPMENT LEASEHOLDS	0.	0.	0.	0.	0.
316 OPERATIONAL TRANSPORTATION	1.	9.	12.	13.	13.
317 OTHER OPERATIONS COSTS	0.	0.	0.	0.	0.
320 MAINTENANCE	53.	353.	490.	503.	503.
321 ORGANIZATIONAL MAINTENANCE	2.	22.	31.	31.	31.
321.1 PERSONNEL	1.	6.	9.	9.	9.
321.2 MAINT MATERIAL	0.	0.	0.	0.	0.
322 INTERMEDIATE MAINTENANCE	24.	220.	310.	313.	313.
322.1 INTER MAINT PERSONNEL	0.	2.	3.	3.	3.
322.2 MAINT MATERIAL	0.	0.	0.	0.	0.
323 DEPOT REPAIR	11.	95.	133.	135.	135.
323.1 LABOR	11.	95.	133.	135.	135.
323.2 MATERIAL	0.	0.	0.	0.	0.
323.3 TRANSPORTATION	0.	0.	0.	0.	0.
324 DEPOT OVERHAUL	0.	0.	0.	0.	0.
324.1 LABOR	0.	0.	0.	0.	0.
324.2 MATERIAL CHARGES	0.	0.	0.	0.	0.
324.3 TRANSPORTATION	0.	0.	0.	0.	0.
325 OPR SOFTWARE SUPPORT	16.	16.	16.	16.	16.
325.1 OPR SOFTWARE MAINT PERS	0.	0.	0.	0.	0.
325.2 OPR SOFTWARE CENTER	0.	0.	0.	0.	0.
325.3 CONTRACT OPR S/W MAINT	16.	16.	16.	16.	16.
326 M&D SOFTWARE SUPPORT	0.	0.	0.	0.	0.
326.1 M&D SOFTWARE MAINT PERS	0.	0.	0.	0.	0.
326.2 M&D SOFTWARE CENTER	0.	0.	0.	0.	0.
326.3 CONTRACT M&D S/W MAINT	0.	0.	0.	0.	0.
327 CONTRACT MAINTENANCE	0.	0.	0.	8.	8.
330 MODIFICATIONS	0.	0.	0.	0.	0.
340 SUPPLY SUPPORT	0.	1.	1.	1.	1.
341 SUPPLY PERSONNEL	0.	0.	0.	0.	0.
342 SUPPLY FACILITIES	0.	0.	0.	0.	0.
343 INVENTORY ADMINISTRATION	0.	1.	1.	1.	1.
350 TECH DATA REVISIONS	3.	24.	33.	33.	33.
360 OTHER LOGISTIC SPT COSTS	0.	0.	0.	0.	0.
TOTAL OPERATING & SUPPORT	262.	2230.	3133.	3173.	3173.

COSTS IN THOUSANDS OF CONSTANT 1980 DOLLARS.					
DATE 12/08/81	TIME 15:28:59				
LIFE CYCLE COST ELEMENTS	FY1992	FY1993	FY1994	FY1995	FY1996

300 OPERATIONS AND SUPPORT					
310 OPERATIONS	2636.	2636.	2636.	2636.	2636.
311 OPERATOR PERSONNEL	2430.	2430.	2430.	2430.	2430.
311.1 CREW	2430.	2430.	2430.	2430.	2430.
311.2 INDIRECT PERSONNEL	0.	0.	0.	0.	0.
312 MATERIAL CONSUMPTION	0.	0.	0.	0.	0.
313 ENERGY CONSUMPTION	1.	1.	1.	1.	1.
314 OPERATIONAL FACILITIES	192.	192.	192.	192.	192.
315 EQUIPMENT LEASEHOLDS	0.	0.	0.	0.	0.
316 OPERATIONAL TRANSPORTATION	13.	13.	13.	13.	13.
317 OTHER OPERATIONS COSTS	0.	0.	0.	0.	0.
320 MAINTENANCE	692.	880.	565.	514.	514.
321 ORGANIZATIONAL MAINTENANCE	31.	31.	31.	31.	31.
321.1 PERSONNEL	9.	9.	9.	9.	9.
321.2 MAINT MATERIAL	0.	0.	0.	0.	0.
322 INTERMEDIATE MAINTENANCE	313.	313.	313.	313.	313.
322.1 INTER MAINT PERSONNEL	3.	3.	3.	3.	3.
322.2 MAINT MATERIAL	0.	0.	0.	0.	0.
323 DEPOT REPAIR	135.	135.	135.	135.	135.
323.1 LABOR	135.	135.	135.	135.	135.
323.2 MATERIAL	0.	0.	0.	0.	0.
323.3 TRANSPORTATION	0.	0.	0.	0.	0.
324 DEPOT OVERHAUL	189.	365.	50.	0.	0.
324.1 LABOR	108.	209.	29.	0.	0.
324.2 MATERIAL CHARGES	81.	157.	22.	0.	0.
324.3 TRANSPORTATION	0.	0.	0.	0.	0.
325 OPR SOFTWARE SUPPORT	16.	16.	16.	16.	16.
325.1 OPR SOFTWARE MAINT PERS	0.	0.	0.	0.	0.
325.2 OPR SOFTWARE CENTER	0.	0.	0.	0.	0.
325.3 CONTRACT OPR S/W MAINT	16.	16.	16.	16.	16.
326 M&D SOFTWARE SUPPORT	0.	12.	12.	12.	12.
326.1 M&D SOFTWARE MAINT PERS	0.	0.	0.	0.	0.
326.2 M&D SOFTWARE CENTER	0.	0.	0.	0.	0.
326.3 CONTRACT M&D S/W MAINT	0.	12.	12.	12.	12.
327 CONTRACT MAINTENANCE	8.	8.	8.	8.	8.
330 MODIFICATIONS	0.	0.	0.	0.	0.
340 SUPPLY SUPPORT	1.	1.	1.	1.	1.
341 SUPPLY PERSONNEL	0.	0.	0.	0.	0.
342 SUPPLY FACILITIES	0.	0.	0.	0.	0.
343 INVENTORY ADMINISTRATION	1.	1.	1.	1.	1.
350 TECH DATA REVISIONS	33.	33.	33.	33.	33.
360 OTHER LOGISTIC SPT COSTS	0.	0.	0.	0.	0.
TOTAL OPERATING & SUPPORT	3363.	3551.	3235.	3185.	3185.

COSTS IN THOUSANDS OF CONSTANT 1980 DOLLARS.				
	DATE 12/08/81		TIME 15:31:02	
LIFE CYCLE COST ELEMENTS	FY1997	FY1998	FY1999	TOTAL

300 OPERATIONS AND SUPPORT				
310 OPERATIONS	2430.	783.	27.	26359.
311 OPERATOR PERSONNEL	2240.	721.	25.	24302.
311.1 CREW	2240.	721.	25.	24302.
311.2 INDIRECT PERSONNEL	0.	0.	0.	0.
312 MATERIAL CONSUMPTION	0.	0.	0.	0.
313 ENERGY CONSUMPTION	1.	0.	0.	11.
314 OPERATIONAL FACILITIES	177.	57.	2.	1920.
315 EQUIPMENT LEASEHOLDS	0.	0.	0.	0.
316 OPERATIONAL TRANSPORTATION	12.	4.	0.	126.
317 OTHER OPERATIONS COSTS	0.	0.	0.	0.
320 MAINTENANCE	477.	178.	40.	5760.
321 ORGANIZATIONAL MAINTENANCE	29.	9.	0.	310.
321.1 PERSONNEL	8.	3.	0.	90.
321.2 MAINT MATERIAL	0.	0.	0.	0.
322 INTERMEDIATE MAINTENANCE	289.	93.	3.	3132.
322.1 INTER MAINT PERSONNEL	3.	1.	0.	31.
322.2 MAINT MATERIAL	0.	0.	0.	1.
323 DEPOT REPAIR	124.	40.	1.	1348.
323.1 LABOR	124.	40.	1.	1345.
323.2 MATERIAL	0.	0.	0.	3.
323.3 TRANSPORTATION	0.	0.	0.	0.
324 DEPOT OVERHAUL	0.	0.	0.	605.
324.1 LABOR	0.	0.	0.	346.
324.2 MATERIAL CHARGES	0.	0.	0.	259.
324.3 TRANSPORTATION	0.	0.	0.	0.
325 OPR SOFTWARE SUPPORT	16.	16.	16.	204.
325.1 OPR SOFTWARE MAINT PERS	0.	0.	0.	0.
325.2 OPR SOFTWARE CENTER	0.	0.	0.	0.
325.3 CONTRACT OPR S/W MAINT	16.	16.	16.	204.
326 M&D SOFTWARE SUPPORT	12.	12.	12.	81.
326.1 M&D SOFTWARE MAINT PERS	0.	0.	0.	0.
326.2 M&D SOFTWARE CENTER	0.	0.	0.	0.
326.3 CONTRACT M&D S/W MAINT	12.	12.	12.	81.
327 CONTRACT MAINTENANCE	8.	8.	8.	80.
330 MODIFICATIONS	0.	0.	0.	0.
340 SUPPLY SUPPORT	1.	0.	0.	14.
341 SUPPLY PERSONNEL	0.	0.	0.	0.
342 SUPPLY FACILITIES	0.	0.	0.	0.
343 INVENTORY ADMINISTRATION	1.	0.	0.	14.
350 TECH DATA REVISIONS	31.	10.	0.	335.
360 OTHER LOGISTIC SPT COSTS	0.	0.	0.	0.
TOTAL OPERATING & SUPPORT	2939.	970.	68.	32468.

ANNUAL LIFE CYCLE COSTS FOR SAMPLE

COSTS IN THOUSANDS OF INFLATED 1980 DOLLARS.						
DATE 12/08/81		TIME 15:33:10				
LIFE CYCLE COST ELEMENTS	FY1979	FY1980	FY1981	FY1982	FY1983	
100 R & D						
110 CONCEPT EXPL & VALID	574.	1100.	0.	0.	0.	
111 CONTRACTOR	387.	782.	0.	0.	0.	
112 GOVERNMENT	187.	318.	0.	0.	0.	
120 FULL SCALE DEVEL	0.	38.	703.	867.	332.	
120.1 CONTRACTOR	0.	22.	404.	498.	191.	
120.2 GOVERNMENT	0.	16.	299.	369.	141.	
TOTAL RESEARCH & DEVELOPMENT	574.	1138.	703.	867.	332.	

COSTS IN THOUSANDS OF INFLATED 1980 DOLLARS.	
DATE 12/08/81	
TIME 15:33:39	
LIFE CYCLE COST ELEMENTS	TOTAL
100 R & D	
110 CONCEPT EXPL & VALID	1674.
111 CONTRACTOR	1169.
112 GOVERNMENT	505.
120 FULL SCALE DEVEL	1940.
120.1 CONTRACTOR	1115.
120.2 GOVERNMENT	825.
TOTAL RESEARCH & DEVELOPMENT	3614.

COSTS IN THOUSANDS OF INFLATED 1980 DOLLARS.					
DATE 12/08/81		TIME 15:34:11			
LIFE CYCLE COST ELEMENTS	FY1984	FY1985	FY1986	FY1987	TOTAL
200 PRODUCTION					
210 NON-RECURRING	2303.	0.	0.	0.	2303.
211.1 CONTRACTOR	1399.	0.	0.	0.	1399.
212.1 GOVERNMENT	904.	0.	0.	0.	904.
220 RECURRING	4861.	5653.	6026.	535.	17076.
221.1 CONTRACTOR	4729.	5499.	5862.	521.	16612.
222.1 GOVERNMENT	132.	154.	164.	15.	465.
TOTAL PRODUCTION	7165.	5653.	6026.	535.	19379.

COSTS IN THOUSANDS OF INFLATED 1980 DOLLARS.					
DATE 12/08/81		TIME 15:34:52			
LIFE CYCLE COST ELEMENTS	FY1987	FY1988	FY1989	FY1990	FY1991

300 OPERATIONS AND SUPPORT					
310 OPERATIONS	342.	3290.	4953.	5353.	5726.
311 OPERATOR PERSONNEL	315.	3037.	4574.	4946.	5292.
311.1 CREW	315.	3037.	4574.	4946.	5292.
311.2 INDIRECT PERSONNEL	0.	0.	0.	0.	0.
312 MATERIAL CONSUMPTION	0.	0.	0.	0.	0.
313 ENERGY CONSUMPTION	0.	1.	2.	2.	2.
314 OPERATIONAL FACILITIES	25.	236.	353.	380.	405.
315 EQUIPMENT LEASEHOLDS	0.	0.	0.	0.	0.
316 OPERATIONAL TRANSPORTATION	2.	15.	23.	25.	27.
317 OTHER OPERATIONS COSTS	0.	0.	0.	0.	0.
320 MAINTENANCE	87.	616.	912.	997.	1062.
321 ORGANIZATIONAL MAINTENANCE	4.	38.	57.	62.	66.
321.1 PERSONNEL	1.	11.	17.	18.	20.
321.2 MAINT MATERIAL	0.	0.	0.	0.	0.
322 INTERMEDIATE MAINTENANCE	40.	385.	577.	621.	661.
322.1 INTER MAINT PERSONNEL	0.	4.	6.	6.	7.
322.2 MAINT MATERIAL	0.	0.	0.	0.	0.
323 DEPOT REPAIR	17.	166.	248.	267.	284.
323.1 LABOR	17.	165.	248.	267.	284.
323.2 MATERIAL	0.	0.	1.	1.	1.
323.3 TRANSPORTATION	0.	0.	0.	0.	0.
324 DEPOT OVERHAUL	0.	0.	0.	0.	0.
324.1 LABOR	0.	0.	0.	0.	0.
324.2 MATERIAL CHARGES	0.	0.	0.	0.	0.
324.3 TRANSPORTATION	0.	0.	0.	0.	0.
325 OPR SOFTWARE SUPPORT	26.	27.	29.	31.	33.
325.1 OPR SOFTWARE MAINT PERS	0.	0.	0.	0.	0.
325.2 OPR SOFTWARE CENTER	0.	0.	0.	0.	0.
325.3 CONTRACT OPR S/W MAINT	26.	27.	29.	31.	33.
326 M&D SOFTWARE SUPPORT	0.	0.	0.	0.	0.
326.1 M&D SOFTWARE MAINT PERS	0.	0.	0.	0.	0.
326.2 M&D SOFTWARE CENTER	0.	0.	0.	0.	0.
326.3 CONTRACT M&D S/W MAINT	0.	0.	0.	0.	0.
327 CONTRACT MAINTENANCE	0.	0.	0.	16.	17.
330 MODIFICATIONS	0.	0.	0.	0.	0.
340 SUPPLY SUPPORT	0.	2.	3.	3.	3.
341 SUPPLY PERSONNEL	0.	0.	0.	0.	0.
342 SUPPLY FACILITIES	0.	0.	0.	0.	0.
343 INVENTORY ADMINISTRATION	0.	2.	3.	3.	3.
350 TECH DATA REVISIONS	4.	41.	62.	66.	71.
360 OTHER LOGISTIC SPT COSTS	0.	0.	0.	0.	0.
TOTAL OPERATING & SUPPORT	433.	3949.	5929.	6419.	6861.

COSTS IN THOUSANDS OF INFLATED 1980 DOLLARS.					
DATE 12/08/81		TIME 15:36:58			
LIFE CYCLE COST ELEMENTS	FY1992	FY1993	FY1994	FY1995	FY1996

300 OPERATIONS AND SUPPORT					
310 OPERATIONS	6125.	6552.	7008.	7496.	8019.
311 OPERATOR PERSONNEL	5663.	6060.	6484.	6938.	7424.
311.1 CREW	5663.	6060.	6484.	6938.	7424.
311.2 INDIRECT PERSONNEL	0.	0.	0.	0.	0.
312 MATERIAL CONSUMPTION	0.	0.	0.	0.	0.
313 ENERGY CONSUMPTION	2.	3.	3.	3.	3.
314 OPERATIONAL FACILITIES	431.	460.	489.	521.	555.
315 EQUIPMENT LEASEHOLDS	0.	0.	0.	0.	0.
316 OPERATIONAL TRANSPORTATION	28.	30.	32.	34.	36.
317 OTHER OPERATIONS COSTS	0.	0.	0.	0.	0.
320 MAINTENANCE	1555.	2107.	1441.	1398.	1489.
321 ORGANIZATIONAL MAINTENANCE	70.	75.	80.	85.	91.
321.1 PERSONNEL	21.	22.	24.	26.	27.
321.2 MAINT MATERIAL	0.	0.	0.	0.	0.
322 INTERMEDIATE MAINTENANCE	704.	750.	799.	851.	906.
322.1 INTER MAINT PERSONNEL	7.	8.	8.	9.	9.
322.2 MAINT MATERIAL	0.	0.	0.	0.	0.
323 DEPOT REPAIR	303.	323.	344.	366.	390.
323.1 LABOR	302.	322.	343.	365.	389.
323.2 MATERIAL	1.	1.	1.	1.	1.
323.3 TRANSPORTATION	0.	0.	0.	0.	0.
324 DEPOT OVERHAUL	425.	875.	128.	0.	0.
324.1 LABOR	243.	500.	73.	0.	0.
324.2 MATERIAL CHARGES	182.	375.	55.	0.	0.
324.3 TRANSPORTATION	0.	0.	0.	0.	0.
325 OPR SOFTWARE SUPPORT	35.	38.	40.	43.	45.
325.1 OPR SOFTWARE MAINT PERS	0.	0.	0.	0.	0.
325.2 OPR SOFTWARE CENTER	0.	0.	0.	0.	0.
325.3 CONTRACT OPR S/W MAINT	35.	38.	40.	43.	45.
326 M&D SOFTWARE SUPPORT	0.	28.	30.	31.	34.
326.1 M&D SOFTWARE MAINT PERS	0.	0.	0.	0.	0.
326.2 M&D SOFTWARE CENTER	0.	0.	0.	0.	0.
326.3 CONTRACT M&D S/W MAINT	0.	28.	30.	31.	34.
327 CONTRACT MAINTENANCE	18.	19.	20.	22.	23.
330 MODIFICATIONS	0.	0.	0.	0.	0.
340 SUPPLY SUPPORT	3.	3.	4.	4.	4.
341 SUPPLY PERSONNEL	0.	0.	0.	0.	0.
342 SUPPLY FACILITIES	0.	0.	0.	0.	0.
343 INVENTORY ADMINISTRATION	3.	3.	4.	4.	4.
350 TECH DATA REVISIONS	75.	80.	85.	91.	97.
360 OTHER LOGISTIC SPT COSTS	0.	0.	0.	0.	0.
TOTAL OPERATING & SUPPORT	7759.	8742.	8538.	8989.	9608.

COSTS IN THOUSANDS OF INFLATED 1980 DOLLARS.

DATE 12/08/81

TIME 15:39:15

LIFE CYCLE COST ELEMENTS	FY1997	FY1998	FY1999	TOTAL
300 OPERATIONS AND SUPPORT				
310 OPERATIONS	7907.	2724.	102.	65597.
311 OPERATOR PERSONNEL	7323.	2524.	95.	60676.
311.1 CREW	7323.	2524.	95.	60676.
311.2 INDIRECT PERSONNEL	0.	0.	0.	0.
312 MATERIAL CONSUMPTION	0.	0.	0.	0.
313 ENERGY CONSUMPTION	3.	1.	0.	25.
314 OPERATIONAL FACILITIES	545.	187.	7.	4595.
315 EQUIPMENT LEASEHOLDS	0.	0.	0.	0.
316 OPERATIONAL TRANSPORTATION	36.	12.	0.	301.
317 OTHER OPERATIONS COSTS	0.	0.	0.	0.
320 MAINTENANCE	1470.	583.	141.	13856.
321 ORGANIZATIONAL MAINTENANCE	89.	31.	1.	751.
321.1 PERSONNEL	27.	9.	0.	224.
321.2 MAINT MATERIAL	0.	0.	0.	0.
322 INTERMEDIATE MAINTENANCE	889.	305.	11.	7498.
322.1 INTER MAINT PERSONNEL	9.	3.	0.	76.
322.2 MAINT MATERIAL	0.	0.	0.	2.
323 DEPOT REPAIR	383.	131.	5.	3227.
323.1 LABOR	382.	131.	5.	3220.
323.2 MATERIAL	1.	0.	0.	7.
323.3 TRANSPORTATION	0.	0.	0.	0.
324 DEPOT OVERHAUL	0.	0.	0.	1428.
324.1 LABOR	0.	0.	0.	816.
324.2 MATERIAL CHARGES	0.	0.	0.	612.
324.3 TRANSPORTATION	0.	0.	0.	0.
325 OPR SOFTWARE SUPPORT	48.	51.	55.	502.
325.1 OPR SOFTWARE MAINT PERS	0.	0.	0.	0.
325.2 OPR SOFTWARE CENTER	0.	0.	0.	0.
325.3 CONTRACT OPR S/W MAINT	48.	51.	55.	502.
326 M&D SOFTWARE SUPPORT	36.	38.	41.	237.
326.1 M&D SOFTWARE MAINT PERS	0.	0.	0.	0.
326.2 M&D SOFTWARE CENTER	0.	0.	0.	0.
326.3 CONTRACT M&D S/W MAINT	36.	38.	41.	237.
327 CONTRACT MAINTENANCE	25.	26.	28.	214.
330 MODIFICATIONS	0.	0.	0.	0.
340 SUPPLY SUPPORT	4.	1.	0.	34.
341 SUPPLY PERSONNEL	0.	0.	0.	0.
342 SUPPLY FACILITIES	0.	0.	0.	0.
343 INVENTORY ADMINISTRATION	4.	1.	0.	34.
350 TECH DATA REVISIONS	95.	33.	1.	802.
360 OTHER LOGISTIC SPT COSTS	0.	0.	0.	0.
TOTAL OPERATING & SUPPORT	9476.	3341.	244.	80289.

POM/BUDGET REPORT FOR SAMPLE

TOTAL OBLIGATION AUTHORITY IN THOUSANDS OF CONSTANT 1980 DOLLARS

BUDGET YEAR 1983

DATE 12/08/81 TIME 15:41:12
RESEARCH & DEVELOPMENT

BUDGET CATEGORY	FY 1981	FY 1982	FY 1983	FY 1984
RDT&E	647.	738.	263.	0.
MILCON	0.	0.	0.	0.
PROC	0.	0.	0.	0.
O&M	0.	0.	0.	0.
OP	0.	0.	0.	0.
MP	0.	0.	0.	0.

BUDGET CATEGORY	FY 1985	FY 1986	FY 1987	OUTYEARS
RDT&E	0.	0.	0.	0.
MILCON	0.	0.	0.	0.
PROC	0.	0.	0.	0.
O&M	0.	0.	0.	0.
OP	0.	0.	0.	0.
MP	0.	0.	0.	0.

PRODUCTION

BUDGET CATEGORY	FY 1981	FY 1982	FY 1983	FY 1984
RDT&E	0.	0.	0.	0.
MILCON	0.	0.	0.	38.
PROC	0.	0.	0.	4900.
O&M	0.	0.	0.	352.
OP	0.	0.	0.	54.
MP	0.	0.	0.	42.

BUDGET CATEGORY	FY 1985	FY 1986	FY 1987	OUTYEARS
RDT&E	0.	0.	0.	0.
MILCON	0.	0.	0.	0.
PROC	3994.	3994.	333.	0.
O&M	0.	0.	0.	0.
OP	0.	0.	0.	0.
MP	0.	0.	0.	0.

OPERATING & SUPPORT

BUDGET CATEGORY	FY 1981	FY 1982	FY 1983	FY 1984
RDT&E	0.	0.	0.	0.
MILCON	0.	0.	0.	0.
PROC	0.	0.	0.	0.
O&M	0.	0.	0.	0.
OP	0.	0.	0.	0.
MP	0.	0.	0.	0.

BUDGET CATEGORY	FY 1985	FY 1986	FY 1987	OUTYEARS
RDT&E	0.	0.	0.	0.
MILCON	0.	0.	0.	0.
PROC	0.	0.	5.	634.
O&M	0.	0.	83.	10567.
OP	0.	0.	0.	0.
MP	0.	0.	147.	18713.

TOTALS

BUDGET CATEGORY	FY 1981	FY 1982	FY 1983	FY 1984
RDT&E	647.	738.	263.	0.
MILCON	0.	0.	0.	38.
PROC	0.	0.	0.	4900.
O&M	0.	0.	0.	352.
OP	0.	0.	0.	54.
MP	0.	0.	0.	42.
TOTAL	647.	738.	263.	5386.

BUDGET CATEGORY	FY 1985	FY 1986	FY 1987	OUTYEARS
RDT&E	0.	0.	0.	0.
MILCON	0.	0.	0.	0.
PROC	3994.	3994.	338.	634.
O&M	0.	0.	83.	10567.
OP	0.	0.	0.	0.
MP	0.	0.	147.	18713.
TOTAL	3994.	3994.	568.	29913.

POM/BUDGET REPORT FOR SAMPLE

TOTAL OBLIGATION AUTHORITY IN THOUSANDS OF INFLATED 1980 DOLLARS

BUDGET YEAR 1983

DATE 12/08/81

TIME 15:45:27

RESEARCH & DEVELOPMENT

BUDGET CATEGORY	FY 1981	FY 1982	FY 1983	FY 1984
RDT&E	703.	867.	332.	0.
MILCON	0.	0.	0.	0.
PROC	0.	0.	0.	0.
O&M	0.	0.	0.	0.
OP	0.	0.	0.	0.
MP	0.	0.	0.	0.

BUDGET CATEGORY	FY 1985	FY 1986	FY 1987	OUTYEARS
RDT&E	0.	0.	0.	0.
MILCON	0.	0.	0.	0.
PROC	0.	0.	0.	0.
O&M	0.	0.	0.	0.
OP	0.	0.	0.	0.
MP	0.	0.	0.	0.

PRODUCTION

BUDGET CATEGORY	FY 1981	FY 1982	FY 1983	FY 1984
RDT&E	0.	0.	0.	0.
MILCON	0.	0.	0.	50.
PROC	0.	0.	0.	6507.
O&M	0.	0.	0.	478.
OP	0.	0.	0.	72.
MP	0.	0.	0.	58.

BUDGET CATEGORY	FY 1985	FY 1986	FY 1987	OUTYEARS
RDT&E	0.	0.	0.	0.
MILCON	0.	0.	0.	0.
PROC	5653.	6026.	535.	0.
O&M	0.	0.	0.	0.
OP	0.	0.	0.	0.
MP	0.	0.	0.	0.

OPERATING & SUPPORT

BUDGET CATEGORY	FY 1981	FY 1982	FY 1983	FY 1984
RDT&E	0.	0.	0.	0.
MILCON	0.	0.	0.	0.
PROC	0.	0.	0.	0.
O&M	0.	0.	0.	0.
OP	0.	0.	0.	0.
MP	0.	0.	0.	0.

BUDGET CATEGORY	FY 1985	FY 1986	FY 1987	OUTYEARS
RDT&E	0.	0.	0.	0.
MILCON	0.	0.	0.	0.
PROC	0.	0.	8.	1500.
O&M	0.	0.	136.	25351.
OP	0.	0.	0.	0.
MP	0.	0.	246.	47268.

TOTALS

BUDGET CATEGORY	FY 1981	FY 1982	FY 1983	FY 1984
RDT&E	703.	867.	332.	0.
MILCON	0.	0.	0.	50.
PROC	0.	0.	0.	6507.
O&M	0.	0.	0.	478.
OP	0.	0.	0.	72.
MP	0.	0.	0.	58.
TOTAL	703.	867.	332.	7165.

BUDGET CATEGORY	FY 1985	FY 1986	FY 1987	OUTYEARS
RDT&E	0.	0.	0.	0.
MILCON	0.	0.	0.	0.
PROC	5653.	6026.	543.	1500.
O&M	0.	0.	136.	25351.
OP	0.	0.	0.	0.
MP	0.	0.	246.	47268.
TOTAL	5653.	6026.	925.	74119.

INFLATION RATES	FY 79	FY 80	FY 81	FY 82	FY 83	FY 84	FY 85
RDT&E	.083	.088	.086	.081	.075	.067	.063
MILCON	.093	.088	.080	.075	.070	.068	.067
PROC	.091	.088	.082	.076	.070	.066	.066
O&M	.089	.143	.089	.082	.077	.070	.065
OP	.091	.088	.082	.076	.070	.066	.066
MP	.058	.071	.077	.084	.081	.075	.071
RATE1	.000	.000	.000	.000	.000	.000	.000
RATE2	.000	.000	.000	.000	.000	.000	.000
INFLATION RATES	FY 86	FY 87	FY 88	FY 89	FY 90	FY 91	FY 92
RDT&E	.063	.063	.063	.063	.063	.063	.063
MILCON	.067	.067	.067	.067	.067	.067	.067
PROC	.066	.066	.066	.066	.066	.066	.066
O&M	.065	.065	.065	.065	.065	.065	.065
OP	.066	.066	.066	.066	.066	.066	.066
MP	.071	.071	.071	.071	.071	.071	.071
RATE1	.000	.000	.000	.000	.000	.000	.000
RATE2	.000	.000	.000	.000	.000	.000	.000
INFLATION RATES	FY 93	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99
RDT&E	.063	.063	.063	.063	.063	.063	.063
MILCON	.067	.067	.067	.067	.067	.067	.067
PROC	.066	.066	.066	.066	.066	.066	.066
O&M	.065	.065	.065	.065	.065	.065	.065
OP	.066	.066	.066	.066	.066	.066	.066
MP	.071	.071	.071	.071	.071	.071	.071
RATE1	.000	.000	.000	.000	.000	.000	.000
RATE2	.000	.000	.000	.000	.000	.000	.000

LIFE CYCLE COST TABLE FOR SAMPLE

COSTS IN THOUSANDS OF CONSTANT AND INFLATED 1980 DOLLARS		
DATE 12/08/81		TIME 15:51:14
LIFE CYCLE COST ELEMENTS	CONSTANT 1980 DOLLARS	INFLATED 1980 DOLLARS
100 R & D		
110 CONCEPT EXPL & VALID	1723.	1674.
111 CONTRACTOR	1203.	1169.
112 GOVERNMENT	520.	505.
120 FULL SCALE DEVEL	1687.	1940.
120.1 CONTRACTOR	970.	1115.
120.2 GOVERNMENT	717.	825.
TOTAL RESEARCH & DEVELOPMENT	3411.	3614.

COSTS IN THOUSANDS OF CONSTANT AND INFLATED 1980 DOLLARS		
DATE 12/08/81		TIME 15:51:48
LIFE CYCLE COST ELEMENTS	CONSTANT 1980 DOLLARS	INFLATED 1980 DOLLARS
200 PRODUCTION		
210 NON-RECURRING	1726.	2303.
211.1 CONTRACTOR	1053.	1399.
212.1 GOVERNMENT	672.	904.
220 RECURRING	11981.	17076.
221.1 CONTRACTOR	11655.	16612.
222.1 GOVERNMENT	326.	465.
TOTAL PRODUCTION	13706.	19379.

COSTS IN THOUSANDS OF CONSTANT AND INFLATED 1980 DOLLARS DATE 12/08/81 TIME 15:52:30		
LIFE CYCLE COST ELEMENTS	CONSTANT 1980 DOLLARS	INFLATED 1980 DOLLARS
300 OPERATIONS AND SUPPORT		
310 OPERATIONS	26359.	65597.
311 OPERATOR PERSONNEL	24302.	60676.
311.1 CREW	24302.	60676.
311.2 INDIRECT PERSONNEL	0.	0.
312 MATERIAL CONSUMPTION	0.	0.
313 ENERGY CONSUMPTION	11.	25.
314 OPERATIONAL FACILITIES	1920.	4595.
315 EQUIPMENT LEASEHOLDS	0.	0.
316 OPERATIONAL TRANSPORTATION	126.	301.
317 OTHER OPERATIONS COSTS	0.	0.
320 MAINTENANCE	5760.	13856.
321 ORGANIZATIONAL MAINTENANCE	310.	751.
321.1 PERSONNEL	90.	224.
321.2 MAINT MATERIAL	0.	0.
322 INTERMEDIATE MAINTENANCE	3132.	7498.
322.1 INTER MAINT PERSONNEL	31.	76.
322.2 MAINT MATERIAL	1.	2.
323 DEPOT REPAIR	1348.	3227.
323.1 LABOR	1345.	3220.
323.2 MATERIAL	3.	7.
323.3 TRANSPORTATION	0.	0.
324 DEPOT OVERHAUL	605.	1428.
324.1 LABOR	346.	816.
324.2 MATERIAL CHARGES	259.	612.
324.3 TRANSPORTATION	0.	0.
325 OPR SOFTWARE SUPPORT	204.	502.
325.1 OPR SOFTWARE MAINT PERS	0.	0.
325.2 OPR SOFTWARE CENTER	0.	0.
325.3 CONTRACT OPR S/W MAINT	204.	502.
326 M&D SOFTWARE SUPPORT	81.	237.
326.1 M&D SOFTWARE MAINT PERS	0.	0.
326.2 M&D SOFTWARE CENTER	0.	0.
326.3 CONTRACT M&D S/W MAINT	81.	237.
327 CONTRACT MAINTENANCE	80.	214.
330 MODIFICATIONS	0.	0.
340 SUPPLY SUPPORT	14.	34.
341 SUPPLY PERSONNEL	0.	0.
342 SUPPLY FACILITIES	0.	0.
343 INVENTORY ADMINISTRATION	14.	34.
350 TECH DATA REVISIONS	335.	802.
360 OTHER LOGISTIC SPT COSTS	0.	0.
TOTAL OPERATING & SUPPORT	32468.	80289.

TOTAL LIFE CYCLE COST	49585.	103282.

ARMY LIFE CYCLE COST MATRIX FOR SAMPLE

COST IN MILLIONS OF CONSTANT 1980 DOLLARS
 DATE: 12/09/81 TIME: 12:44:33

PRIME DEFN ROW APPRO REF	+ SYSTEM STRUCTURE + COST ELEMENT +	INTEGRAT AND ASSEM	SENSORS	COMMUNI- CATIONS	ADPE	COMPUTER PROGRAMS	DATA DISPLAYS	AUX EQUIP	COMMON SUPPORT EQUIP	PECULIAR SUPPORT EQUIP	OTHER EQUIP
1	1.0 RESEARCH AND DEVELOPMENT	2.83			0.10	0.67	0.05				
2	1.01 DEVELOPMENT ENGINEERING	0.37			0.04	0.29	0.05				
3	1.02 PROD ENG & PLAN(PEP)	0.13			0.02	0.11					
4	1.03 TOOLING	0.18			0.02	0.15					
5	1.04 PROTOTYPE MANUFACTURING	0.14			0.02	0.12					
6	1.05 DATA	0.20									
7	1.06 SYSTEM TEST & EVALUATION	0.40									
8	1.07 SYSTEM/PROJECT MANAGEMENT	0.63									
9	1.08 TRAINING	0.41									
10	1.09 FACILITIES	0.37									
12	2.0 INVESTMENT	13.71	0.32	3.15	7.87	0.01					
13	2.01 NON-RECURRING INVESTMENT	0.27				0.01					
14	2.02 PRODUCTION	9.49			1.62	7.54	0.01				
15	2.03 ENGINEERING CHANGES	0.33			0.02	0.32					
16	2.04 SYSTEM TEST & EVALUATION	0.40									
17	2.05 DATA	0.24									
18	2.06 SYSTEM/PROJECT MANAGEMENT	0.76									
19	2.07 OPRL/SITE ACTIVATION	0.09									
20	2.08 TRAINING	0.24									
21	2.09 INIT SPARES & REPAIR PART	1.84	0.32	1.51							
22	2.10 TRANSPORTATION	0.05									

24	3.0	OPERATING AND SUPPORT COST	30.97	1.93	23.31
25	3.01	MILITARY PERSONNEL	15.15		15.15
26	3.011	CREW PAY & ALLOWANCES	13.82		13.82
27	1.012	MAINT PAY & ALLOWANCES	0.06		0.06
29	3.014	PERM CHANGE OF STATION	1.27		1.27
30	3.02	CONSUMPTION			
31	3.021	REPLENISHMENT SPARES	1.95	1.93	0.03
34	3.03	DEPOT MAINTENANCE	1.69	1.67	0.02
35	3.031	LABOR	0.26	0.26	
36	3.032	MATERIEL	5.62		0.01
39	3.05	OTHER DIRECT SUPT OPRNS	5.62		0.01
41	3.052	OTHER DIRECT	8.25		8.12
42	3.06	INDIRECT SUPT OPERATIONS	5.98		5.98
43	3.061	PERSONNEL REPLACEMENT	0.46		0.46
44	3.062	TRANS,PATIENTS & PRIS	1.08		1.08
45	3.063	QTRS,MAINT & UTILITIES	0.62		0.62
46	3.064	MEDICAL SUPPORT	0.13		
47	3.065	OTHER INDIRECT	47.50		
48		TOTAL SYSTEM COST		0.32	31.85
49		TRACE-DEM&VAL		5.18	0.06
50		TRACE-FSD			

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APPENDIX B

Appendix B contains a sample listing of an LCC Version 5 data base. A listing of the data base should be included in all LCC reports. The listing function is designed for 8 1/2 x 11 paper on output printers which accept "top of page" line feed commands.

THE FOLLOWING ASSUMPTIONS ARE MADE:

A 1=	10.0000	YEARS OF OPERATION
A 2=	0.2000	INITIAL PROVISIONING COST FACTOR (%)
A 3=	250.0000	INVENTORY INTRODUCTION \$
A 4=	250.0000	INVENTORY MANAGEMENT \$1-5000 (\$/YR)
A 5=	300.0000	INVENTORY MANAGEMENT \$5000-49,999 (\$/YR)
A 6=	300.0000	INVENTORY MANAGEMENT \$ 50,000-500,000 (\$/YR)
A 7=	350.0000	INVENTORY MANAGEMENT \$500,000+ (\$/YR)
A 8=	0.0010	TRANSPORTATION COST FACTOR
A 9=	30.0000	DISTANCE BETWEEN ORGANIZATIONAL AND INTERMEDIATE LEVEL (MILES)
A 10=	30.0000	DISTANCE DSU-GSU (MILES)
A 11=	3000.0000	DISTANCE BETWEEN INTERMEDIATE AND DEPOT (CONUS) (MILES)
A 12=	3000.0000	DISTANCE BETWEEN INTERMEDIATE AND DEPOT (EUROPE) (MILES)
A 13=	3000.0000	DISTANCE BETWEEN INTERMEDIATE AND DEPOT (WESTPAC) (MILES)
A 14=	0.0100	SHORT DISTANCE TRANSPORTATION FACTOR (\$/LBS/MILE)
A 15=	0.0010	LONG DISTANCE TRANSPORTATION FACTOR (\$/LBS/MILE)
A 16=	0.0000	TRUCK RATES (\$/TON MI)
A 17=	0.0000	RAIL RATES (\$/TON-MILE)
A 18=	0.0000	SEA RATES (\$/TON-MI)
A 19=	0.0000	AIR RATES \$/TON-MI)
A 20=	830.0000	AVAILABLE MANHOURS PER YEAR (OLM,ILM,DSU,DCT,GSU,GCT)
A 21=	1653.0000	AVAILABLE MANHOURS PER YEAR (OPR)
A 22=	0.0500	MODIFICATION FACTOR (%)
A 23=	0.0200	REPLENISHMENT FACTOR (%)
A 24=	0.0010	STORAGE COST FACTOR (%)
A 25=	0.0020	SHRINKAGE COST FACTOR (%)
A 26=	0.0000	OUT OF STOCK FACTOR (%)
A 27=	0.0000	SUPPLY PERSONNEL COST FACTOR (%)
A 28=	0.1000	DOD DISCOUNT RATE
A 29=	10.0000	SUPPORT EQUIPMENT LIFE (YRS)
A 30=	30.0000	PIPELINE TIME ORG (DAYS)
A 31=	30.0000	PIPELINE TIME INTERMEDIATE (DAYS)
A 32=	30.0000	PIPELINE TIME DSU (DAYS)
A 33=	30.0000	PIPELINE TIME GSU (DAYS)
A 34=	180.0000	PIPELINE TIME DEPOT (CONUS) (DAYS)
A 35=	180.0000	PIPELINE TIME DEPOT (EUROPE) (DAYS)
A 36=	180.0000	PIPELINE TIME DEPOT (WESPAC) (DAYS)

RESEARCH AND DEVELOPMENT
LCC INPUT SUMMARY SHEET
PAGE 1

SYSTEM: SAMPLE
DATE: 12/09/81

DESCRIPTION	VALUE/REFERENCE
100 RESEARCH & DEVELOPMENT	
110 DEMONSTRATION & VALIDATION	
111 CONTRACTOR	
111.12 SYSTEM, PROJECT MANAGEMENT	148000./
111.13 SYSTEM TEST & EVALUATION	116500./
111.14 TRAINING	139000./
111.15 DATA	127700./
111.17 SOFTWARE CENTER	189000./
112 GOVERNMENT	
112.12 PROGRAM MNGMNT	
112.12.3 PGM MGT CONTRACTOR SUPPORT	58000./
112.13.1 TEST SITE ACTIVATION	112000./
112.13.2 DEVELOP TEST & EVAL (DT&E)	35000./
112.13.3 OPRTNL TEST & EVAL (OT&E)	42000./
112.14 TRAINING	89000./
120 FULL SCALE DEVELOPMENT	
121 CONTRACTOR	
121.12 SYSTEM, PROJECT MANAGEMENT	
121.12.1 SYSTEM ENGINEERING	9500./
121.12.2 PROJECT MANAGEMENT	11500./
121.13 SYSTEM TEST & EVALUATION	
121.13.1 MOCKUPS	165000./
121.13.2 TEST & EVALUATION SUPPORT	66000./
121.13.3 TEST FACILITIES	49000./
121.14 TRAINING	72000./
121.15 DATA	68000./
121.17 SOFTWARE CENTER	185000./
122 GOVERNMENT	
122.12 PROGRAM MNGMNT	
122.12.3 PGM MGT CONTRACTOR SUPPORT	88000./
122.13.1 TEST SITE ACTIVATION	61000./
122.13.2 DEVELOP TEST & EVAL (DT&E)	29000./
122.13.3 OPRTNL TEST & EVAL (OT&E)	55500./
122.14 TRAINING	114800./

PRODUCTION
LCC INPUT SUMMARY SHEET
PAGE 1

SYSTEM: SAMPLE
DATE: 12/09/81

DESCRIPTION	VALUE/REFERENCE
200 PRODUCTION	
210 PRODUCTION (NON-RECURRING)	
211 CONTRACTOR	
211.12 SYSTEM/PROJECT MNGMNT	
211.12.1 SYSTEM ENGINEERING	119000./
211.12.2 PROJECT MANAGEMENT	125600./
211.13 TRAINING	
211.13.1 EQUIPMENT	99000./
211.13.2 SERVICES	38000./
211.13.3 FACILITIES	
211.13.3.2 MILCON	38000./
211.14 PRODUCTION STARTUP	189000./
211.15 DATA	245000./
211.17 SYSTEM TEST & EVAL SUPT	122000./
211.18 SOFTWARE CENTER	22000./
211.19 CONTRACTOR TECH SUPPORT	43000./
212.1 GOVERNMENT	
212.12 INITIAL TRAINING	65000./
212.13 SYSTEM TEST & EVALUATION	
212.13.1 PROD ACCPT TEST&EVAL(PATE)	73000./
212.13.2 OPRTNL TEST & EVAL(OT&E)	
212.13.2.2 OTHER PROC	54000./
212.13.2.3 MILPER	42500./
212.14 TEST SITE ACTIVATION	38500./
212.15 PROGRAM MANAGEMENT	
212.15.3 PGM MNGMNT CONTRACTOR SUPT	45900./
220 PRODUCTION(RECURRING)	
221 CONTRACTOR	310000./
222 GOVERNMENT	
222.12 QUALITY CONTROL & INSPECT	119000./
222.13 TRANSPORTATION	48900./
222.14 OPERATIONAL/SITE ACTIVATION	91000./
222.18 SYSTEM TEST & EVAL	67000./

OPERATIONS AND SUPPORT
LCC INPUT SUMMARY SHEET
PAGE 1

SYSTEM: SAMPLE
DATE: 12/09/81

DESCRIPTION	O#	VALUE/REFERENCE
314 OPERATIONAL FACILITIES COST(\$/YR)	0 1	192000./
316 OPERATIONAL TRANSPORTATION(\$/YR)	0 8	12590./
321.4 ORGANIZATION MAINT FAC COST(\$/YR)	0 22	22000./
322.4 INT MAINT FACILITIES COST(\$/YR)	0 26	310000./
325.2 MAINT OF OPR S/W CENTER(\$/YR)	0 30	33900./
325.3 CONTRACT MAINT OF OPR S/W(\$/YR)	0 31	15700./
326.3 CONTRACT MAINT OF M&D S/W(\$/YR)	0 35	11600./
NUMBER YRS CONTRACT MAINT M&D S/W(#)	0 36	7./
327 CONTRACTOR SERVICES(\$/YR)	0 38	8000./
NUMBER YEARS CONTRACTOR SERVICES	0 39	4./
342.3 MAINT FIELD DEP SUPPLY FAC(\$/YR)	0 45	3000./
350 TECH DATA REVISIONS(\$/YR)	0 51	33500./
NUMBER NEW FSN/NSN UNDER \$5K	0 54	2./
NUMBER NEW FSN/NSN \$50-500K	0 56	3./

LCC WBS DATA BASE FOR SYSTEM: SAMPLE

DATE: 12/09/81

NAME: MASS-STORAGE-DEVICE

DATE: 12/09/81

EQUIP-PERSONNEL GROUP 1

ARMY CLASS 4

WBS ITEM LINE #: 1

WBS: 11.4.1

NSN:MSD1406Z

GFE:NO

UPC BASE YEAR 1979

INFLATION FACTOR:

PROCUREMENT

NAME: MASS-MEMORY

DATE: 12/09/81

EQUIP-PERSONNEL GROUP 1

ARMY CLASS 4

WBS ITEM LINE #: 2

WBS: 11.4.2

NSN:MM1825P

GFE:NO

UPC BASE YEAR 1979

INFLATION FACTOR:

PROCUREMENT

NAME: MICRO-COMPUTER

DATE: 12/09/81

EQUIP-PERSONNEL GROUP 1

ARMY CLASS 4

WBS ITEM LINE #: 3

WBS: 11.4.3

NSN:MC29356Q

GFE:NO

UPC BASE YEAR 1979

INFLATION FACTOR:

PROCUREMENT

NAME: CONTROL-PANEL

DATE: 12/09/81

EQUIP-PERSONNEL GROUP 2

ARMY CLASS 3

WBS ITEM LINE #: 4

WBS: 11.3

NSN:CP60954T

GFE:NO

UPC BASE YEAR 1979

INFLATION FACTOR:

PROCUREMENT

NAME: COMPUTER-PROGRAMS

DATE: 12/09/81

EQUIP-PERSONNEL GROUP 4

ARMY CLASS 5

WBS ITEM LINE #: 5

WBS: 11.5

NSN:000

GFE:NO

UPC BASE YEAR 1979

INFLATION FACTOR:

PROCUREMENT

SYSTEM: SAMPLE DATE: 12/09/81
DEM/VAL INPUTS FOR WBS ITEM LINE NUMBER(S):

	1	2	3	4
BASE YEAR \$(YY)	D 1 1979.000	1979.000	1979.000	1979.000
INFLATION TABLE-LABOR(#)	D 2 4.000	4.000	4.000	4.000
INFLATION TABLE-MATERIAL(#)	D 3 4.000	4.000	4.000	4.000
MECH ENG(\$,HRS)	D 7 23000.000	1800.000	20000.000	5000.000
ELEC ENG(\$,HRS)	D 8 15000.000	9000.000	6000.000	1000.000
DRAFTING(\$,HRS)	D 9 6000.000	4000.000	4000.000	5500.000
DTC/LCC(\$,HRS)	D10 12000.000	3000.000	9000.000	3000.000
RAM(\$,HRS)	D11 6500.000	5500.000	7000.000	2000.000
EQUIPMENT(\$)	D12 1900.000	11000.000	10000.000	1200.000
OTHER(\$)	D13 0.000	500.000	0.000	0.000
PROD ENG&PLAN(\$,HRS)	D14 31000.000	13000.000	15000.000	9000.000
TOOLING(\$)	D15 26000.000	0.000	24000.000	11000.000
PROGRAMS(\$,HRS)	D16 0.000	2000.000	0.000	0.000
LABOR(\$,HRS)	D17 0.000	22000.000	0.000	0.000
MATERIAL(\$)	D18 0.000	5000.000	0.000	0.000
MFR EQUIP(\$)	D19 0.000	1900.000	0.000	0.000
TEST EQUIP(\$)	D20 0.000	1000.000	0.000	0.000
OTHER(\$)	D21 0.000	2200.000	0.000	0.000
PROTOTYPE MFR(\$)	D22 0.000	18000.000	23000.000	0.000
MFR LABOR(\$,HRS)	D23 4950.000	0.000	0.000	3000.000
TEST LABOR(\$,HRS)	D24 3100.000	0.000	0.000	1500.000
MATERIAL(\$)	D25 6200.000	0.000	0.000	1800.000
PURCHASED PARTS/ASSYS(\$)	D26 8000.000	0.000	0.000	3500.000
OTHER(\$)	D28 0.000	0.000	7000.000	0.000
TRACE(\$)	D29 0.000	0.000	500.000	0.000

SYSTEM: SAMPLE DATE: 12/09/81
FSD INPUTS FOR WBS ITEM LINE NUMBER(S):

	1	2	3	4
BASE YEAR \$(YY)	F 1	1979.000	1979.000	1979.000
INFLATION TABLE-LABOR(#)	F 2	4.000	4.000	4.000
INFLATION TABLE-MATERIAL (#)	F 3	4.000	4.000	4.000
DEVELOPMENT ENGINEERING(\$)	F 6	0.000	0.000	19460.000
MECH ENG(\$,HRS)	F 7	20000.000	9000.000	16000.000
ELEC ENG(\$,HRS)	F 8	11000.000	6000.000	5500.000
DRAFTING(\$,HRS)	F 9	8000.000	1969.000	3250.000
DTC/LCC(\$,HRS)	F10	2500.000	2156.000	1690.000
RAM(\$,HRS)	F11	2600.000	4823.000	2500.000
EQUIPMENT(\$)	F12	5100.000	3128.000	1700.000
PROD ENG&PLAN(\$,HRS)	F14	25000.000	6982.000	13690.000
TOOLING(\$)	F15	31000.000	0.000	18000.000
LABOR(\$,HRS)	F17	0.000	1429.000	0.000
MATERIAL(\$)	F18	0.000	2834.000	0.000
MFR EQUIP(\$)	F19	0.000	3500.000	0.000
TEST EQUIP(\$)	F20	0.000	500.000	0.000
PROTOTYPE MFR(\$)	F22	11000.000	17000.000	21000.000
MFR LABOR(\$,HRS)	F23	0.000	0.000	0.000
TEST LABOR(\$,HRS)	F24	0.000	0.000	0.000
MATERIAL(\$)	F25	0.000	0.000	0.000
PURCHASED PARTS/ASSYS(\$)	F26	0.000	0.000	0.000
TRACE(\$)	F29	100.000	0.000	0.000

SYSTEM: SAMPLE DATE: 12/09/81

PRODUCTION INPUTS FOR WBS ITEM LINE NUMBER(S):

BASE YEAR \$ (YY)	P 1	1979.000	1	1979.000	2	1979.000	3	1979.000	4	1979.000
INFLATION TABLE-LABOR(#)	P 2	3.000		3.000	3.000		3.000		3.000	
INFLATION TABLE-MAT(#)	P 3	3.000		3.000	3.000		3.000		3.000	
MATERIAL(\$/UNIT)	P 6	2200.000		1600.000	1600.000		1500.000		1850.000	
PUR PARTS/ASSYS(\$/UNIT)	P 8	1200.000		1100.000	1100.000		1100.000		1100.000	
FABRICATION(\$/HRS/UNIT)	P 9	1150.000		180.000	180.000		180.000		180.000	
ASSEMBLY(\$/HRS/UNIT)	P10	1155.000		1159.000	1159.000		1150.000		1150.000	
QUALCNTRL&INSP(\$/HRS/UNIT)	P12	1100.000		1100.000	1100.000		1100.000		1100.000	
SUSTAIN ENGINEERING(\$/HRS/UNIT)	P13	1200.000		1250.000	1250.000		1250.000		1250.000	
DESIGN ASSUR(\$/HRS/UNIT)	P14	1100.000		1100.000	1100.000		1150.000		1100.000	
PACKAGING(\$/UNIT)	P15	12.000		10.000	10.000		10.000		10.000	
SUST TOOL(\$)	P16	0.000		15000.000	15000.000		1300.000		6700.000	
LABOR(\$/HRS/UNIT)	P18	1250.000		0.000	0.000		0.000		0.000	
MATERIAL(\$/HRS/UNIT)	P19	160.000		0.000	0.000		0.000		0.000	
MFR EQUIP(\$/UNIT)	P20	175.000		0.000	0.000		0.000		0.000	
TEST EQUIP(\$/UNIT)	P21	150.000		0.000	0.000		0.000		0.000	
PROGRAM MGT(\$/HRS/UNIT)	P23	1450.000		16000.000	16000.000		1990.000		980.000	
NON-REC PROD(\$)	P25	1800.000		3000.000	3000.000		3000.000		2000.000	

SYSTEM: SAMPLE DATE: 12/09/81
DTUPC INPUTS FOR WBS ITEM LINE NUMBER(S):

	1	2	3	4
DTUPC DATE(YY)	1979.000	1979.000	1979.000	1979.000
DTUPC DATE(MM)	10.000	10.000	10.000	8.000
DTUPC GOAL (\$)	45900.000	98000.000	119000.000	30000.000
DTUPC GOAL QTY(#)	80.000	80.000	80.000	80.000
LEARNING CURVE-LABOR(%)	0.900	0.900	0.900	0.900
LEARNING CURVE-MAT(%)	0.950	0.950	0.950	0.950
LOT(#)	1.000	1.000	1.000	1.000
LOT BUY QTY(#)	150.000	130.000	125.000	120.000
NUMBER PREVIOUSLY BUILT(#)	3.000	3.000	3.000	2.000
STATE DATE(YY)	1985.000	1985.000	1985.000	1985.000
START DATE (MM)	10.000	9.000	9.000	8.000
PRODUCTION RATE(#/MO)	15.000	15.000	15.000	15.000
RIW (\$/UNIT/YEAR)	0.000	600.000	0.000	0.000
RIW PERIOD (YEARS)	0.000	2.000	0.000	0.000
ENGINEERING CHNGS(\$,%)	0.020	0.050	0.030	0.010

SYSTEM: SAMPLE DATE: 12/09/81

EQUIPMENT INPUTS FOR WBS ITEM LINE NUMBER(S):

	1	2	3	4
OPERATING EQUIP.QTY(#)	E 1	130.000	115.000	105.000
OPERATING HOURS(HRS)	E 2	960.000	960.000	960.000
EQUIPMENT WEIGHT(LBS)	E 4	55.000	32.000	29.500
WEIGHT OF AVG LRU (LBS)	E 5	2.000	2.000	2.000
AVG. DISCARD LRU COST(\$)	E 6	12.000	12.000	12.000
AVG. REPAIRABLE LRU COST(\$)	E 7	21.000	33.000	33.000
REPAIR MAT.COST(%)	E 8	0.050	0.050	0.050
REPAIR MATERIAL WEIGHT(LBS)	E 9	1.000	1.000	1.000
POWER CONSUMPTION(UNITS/HR/YR)	E14	0.020	0.020	0.020
POWER TYPE(1 2 3)	E15	2.000	2.000	2.000
FIELD PWR COST(\$/UNIT)	E16	0.210	0.210	0.210
COMM PWR COST(\$/UNIT)	E17	0.070	0.070	0.070
FIELD PWR PWR USE(%)	E19	0.250	0.250	0.250
COM PWR PWR USE(%)	E20	0.750	0.750	0.750
MTBF(HRS)	E22	7810.000	2827.000	6764.000
ATTRITION RATE(%)	E23	0.020	0.010	0.010
MTTR ORG.(HRS)	E24	0.200	0.300	0.300
MTTR-INT.(HRS)	E25	0.500	0.600	0.600
MTTR-DSU(HRS)	E26	0.500	0.600	0.600
MTTR-DSUCT(HRS)	E27	0.500	0.600	0.600
MTTR-GSU(HRS)	E28	0.500	0.600	0.600
MTTR-GSUCT(HRS)	E29	0.500	0.600	0.600
MTTR-DEPOT(HRS)	E30	0.750	0.800	0.800
PREVENT. MAINT.(HR/YR)	E31	52.000	40.000	40.000
CALIBRATE DSU(HRS/YR)	E32	0.000	80.000	80.000
CALIBRATE GSU(HRS/YR)	E33	0.000	80.000	80.000
CALIBRATE DEP(HRS/YR)	E34	0.000	80.000	80.000

SYSTEM: SAMPLE DATE: 12/09/81

MAINTENANCE INPUTS FOR WBS ITEM LINE NUMBER(S):

	1	2	3	4
MEAN TIME TO MOD-DEP(Mhrs)	M 2	0.000	0.000	30.000
MOD RATE-FIELD(%)	M 5	0.000	0.000	1.000
OVERHAUL SCHED.(YRS)	M 7	0.000	0.000	5.000
MEAN OVERHAUL TIME(Mhrs)	M 8	0.000	0.000	45.000
DEPOT LABOR RATE (\$/HR)	M 9	32.000	32.000	32.000
DEPOT MATERIAL RATE (\$/HR)	M10	0.080	0.080	0.080
DISCARD RATE-ORG(%)	M11	0.010	0.001	0.001
DISCARD RATE-INT(%)	M12	0.010	0.001	0.001
DISCARD RATE-DSUCT(%)	M13	0.010	0.001	0.001
DISCARD RATE-DSU(%)	M14	0.010	0.001	0.001
DISCARD RATE-GSUCT(%)	M15	0.010	0.001	0.001
DISCARD RATE-GSU(%)	M16	0.010	0.001	0.001
MAINT RATE-OPR(%)	M17	0.000	0.000	1.000
MAINT RATE ORG.(%)	M18	1.000	1.000	0.000
MAINT RATE-INT.(%)	M19	0.500	0.500	0.500
MAINT RATE-DEPOT(%)	M24	0.500	0.500	0.500
REPAIR RATE-INT.(%)	M26	0.200	0.200	0.200
REPAIR RATE-DEPOT(%)	M31	0.800	0.800	0.800
REPAIR OVHD ORG.(HRS)	M32	1.500	1.500	1.500
REPAIR OVHD-INT.(HRS)	M33	2.000	2.000	2.000
REPAIR OVH D-DEPOT(HRS)	M38	1.000	1.000	1.000
PROB GOOD UNIT REMOVAL-ORG(%)	M39	0.010	0.010	0.010
PROB GOOD UNIT REMOVAL-INT(%)	M40	0.010	0.010	0.010
PROB GOOD UNIT REMOVAL-DEPOT(%)	M45	0.010	0.010	0.010

SYSTEM: SAMPLE DATE: 12/09/81

DEM/VAL INPUTS FOR WBS ITEM LINE NUMBER(S):

	5
BASE YEAR \$(YY)	D 1 1979.000
INFLATION TABLE-LABOR(%)	D 2 4.000
INFLATION TABLE-MATERIAL(%)	D 3 4.000
DEMONSTRATION&VALIDATION(\$)	D 4 27500.000

SYSTEM: SAMPLE		DATE: 12/09/81	
FSD INPUTS FOR WBS ITEM LINE NUMBER(S):		5	

BASE YEAR \$(YY)	F 1	1979.000	
INFLATION TABLE-LABOR(#)	F 2	4.000	
INFLATION TABLE-MATERIAL(#)	F 3	4.000	
FULL SCALE DEVELOPMENT(\$)	F 4	15000.000	
TRACE(\$)	F29	250.000	

SYSTEM: SAMPLE		DATE: 12/09/81	
PRODUCTION INPUTS FOR WBS ITEM LINE NUMBER(S):		5	

BASE YEAR \$ (YY)	P 1	1979.000	

INFLATION TABLE-LABOR(#)	P 2	3.000	
INFLATION TABLE-MAT(#)	P 3	3.000	
RECURRING PROD(\$/UNIT)	P 4	11000.000	
NON-REC PROD(\$)	P25	2000.000	

SYSTEM: SAMPLE		DATE: 12/09/81	
DTUPC INPUTS FOR WBS ITEM LINE NUMBER(S):		5	

DTUPC DATE(YY)	U 5	1979.000	
DTUPC DATE(MM)	U 6	8.000	
DTUPC GOAL(\$)	U 7	62000.000	
DTUPC GOAL QTY(#)	U 8	1.000	
LEARNING CURVE-LABOR(%)	U 9	0.900	
LEARNING CURVE-MAT(%)	U10	0.950	
LOT(#)	U11	1.000	
LOT BUY QTY(#)	U12	1.000	
STATE DATE(YY)	U14	1985.000	
START DATE (MM)	U15	8.000	
PRODUCTION RATE(#/MO)	U16	0.100	

PHASE DATES & SPENDING RATES

PHASE NAME	START DATE	END DATE	LENGTH(MONTHS)
D. & V.	1979. 3	1980. 8	18.000
F.S.D.	1980. 8	1983. 6	35.000
PRODUCTION	1983.11	1986.10	36.000
O. & S.	1987. 5	1998.12	140.000

D&V-CONTRACTOR

1979	1980
0.3500	0.6500

D&V-GOVERNMENT

1979	1980
0.3889	0.6111

FSD-CONTRACTOR

1980	1981	1982	1983
0.0228	0.3836	0.4376	0.1560

FSD-GOVERNMENT

1980	1981	1982	1983
0.0228	0.3836	0.4376	0.1560

PRODUCTION-CONTRACTOR, NON-RECURRING

1984	1985	1986	1987
1.0000	0.0000	0.0000	0.0000

PRODUCTION-GOVERNMENT, NON-RECURRING

1984	1985	1986	1987
1.0000	0.0000	0.0000	0.0000

PRODUCTION-CONTRACTOR, RECURRING

1984	1985	1986	1987
0.3056	0.3333	0.3333	0.0278

PRODUCTION-GOVERNMENT, RECURRING

1984	1985	1986	1987
0.3056	0.3333	0.3333	0.0278

DELIVERY SCHEDULE & RATES

#	YEAR. MONTH	PERCENT %	PERIOD IN MONTHS
1	1987. 5	75.0	12
2	1988. 2	25.0	12

TABLE OF ORGANIZATION FOR AIR FORCE.

LCC T/O LINE#	LEVEL	OS	PAY GRADE	NUMBER	EQUIP. GROUP	WBS NUMBER	TRAINING TRACK #	RTR	SERVICE T/O #
1	OPRD	54550	E 4	110.00	1 11.4		0	.27	A4895

TABLE OF ORGANIZATION FOR CIVILIAN.

LCC T/O LINE#	LEVEL	PAY GRADE	NUMBER	EQUIP. GROUP	WBS NUMBER
2	PMDD	GS13	2.50	1 11	
3	PMFD	GS12	3.00	1 11	
4	PMPD	GS14	2.00	1 11	

• TABLE OF ORGANIZATION FOR MARINE CORPS.

LCC T/O LINE#	LEVEL	OS	PAY GRADE	NUMBER	EQUIP. GROUP	WBS NUMBER	TRAINING TRACK #	RTR	SERVICE T/O #
5	OPRD	2851	E 4	27.00	2 11		0	.00	
6	OLMS	2861	E 5	62.00	1 11.4		0	.00	
7	ILMS	5977	E 5	30.00	1 11.4		0	.00	

TABLE OF ORGANIZATION FOR NAVY.

LCC T/O LINE#	LEVEL	OS	PAY GRADE	NUMBER	EQUIP. GROUP	WBS NUMBER	TRAINING TRACK #	RTR	SERVICE T/O #
8	OPRS	CE5642	E 4	116.00	1 11.4		0	.00	
9	ILMS	CTM-4811	E 5	33.00	1 11		0	.00	
10	OLMS	DS1617	E 5	45.00	1 11		0	.00	

TABLE OF ORGANIZATION FOR ARMY.

LCC T/O LINE#	LEVEL	OS	PAY GRADE	NUMBER	EQUIP. GROUP	WBS NUMBER	TRAINING TRACK #	RTR	SERVICE T/O #
11	OPRD	36L30	E 5	36.00	1 11.4		0	.00	
12	GSUS	35K20	E 5	41.00	1 11.1		0	.00	
13	OLMS	24H20	E 4	28.00	1 11		0	.00	

INFLATION RATES	FY 79	FY 80	FY 81	FY 82	FY 83	FY 84	FY 85
RDT&E	.083	.088	.086	.081	.075	.067	.063
MILCON	.093	.088	.080	.075	.070	.068	.067
PROC	.091	.088	.082	.076	.070	.066	.066
O&M	.089	.143	.089	.082	.077	.070	.065
OP	.091	.088	.082	.076	.070	.066	.066
MP	.058	.071	.077	.084	.081	.075	.071
RATE1	.000	.000	.000	.000	.000	.000	.000
RATE2	.000	.000	.000	.000	.000	.000	.000
INFLATION RATES	FY 86	FY 87	FY 88	FY 89	FY 90	FY 91	FY 92
RDT&E	.063	.063	.063	.063	.063	.063	.063
MILCON	.067	.067	.067	.067	.067	.067	.067
PROC	.066	.066	.066	.066	.066	.066	.066
O&M	.065	.065	.065	.065	.065	.065	.065
OP	.066	.066	.066	.066	.066	.066	.066
MP	.071	.071	.071	.071	.071	.071	.071
RATE1	.000	.000	.000	.000	.000	.000	.000
RATE2	.000	.000	.000	.000	.000	.000	.000
INFLATION RATES	FY 93	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99
RDT&E	.063	.063	.063	.063	.063	.063	.063
MILCON	.067	.067	.067	.067	.067	.067	.067
PROC	.066	.066	.066	.066	.066	.066	.066
O&M	.065	.065	.065	.065	.065	.065	.065
OP	.066	.066	.066	.066	.066	.066	.066
MP	.071	.071	.071	.071	.071	.071	.071
RATE1	.000	.000	.000	.000	.000	.000	.000
RATE2	.000	.000	.000	.000	.000	.000	.000

COMMENTS FOR RDT&E

THE R&D PHASE WILL BE PROLONGED DUE TO MANPOWER CONSTRAINTS

COMMENTS FOR PROD

THE PRODUCTION PHASE WILL BE SHORTENED DUE TO THE AVAILABILITY OF SOME COMPONENTS IN CURRENT PRODUCTION LEVELS

COMMENTS FOR O&S

THE O&S PHASE WILL BE PROLONGED DUE TO DELIVERY DELAYS

USER TRAINING COURSES

COURSE ID					COST		
#	NAME		FY	MP	PROC	O&M	OPROC
USR 1	COURSE1		1980	1200.00	0.00	800.00	0.00
SERVICE CIN	PCS/TDY	LENGTH	ATTRITION	DATE	DATE		
1112111	P	(DAYS)	RATE	CREATED	UPDATED		
		14	.09	12/08/81			

COURSE ID					COST		
#	NAME		FY	MP	PROC	O&M	OPROC
USR 2	COURSE2		1980	100.00	300.00	550.00	0.00
SERVICE CIN	PCS/TDY	LENGTH	ATTRITION	DATE	DATE		
2223222	T	(DAYS)	RATE	CREATED	UPDATED		
		13	.06	12/08/81			

AIR FORCE TRAINING TRACKS

TRACK #			TRAINING COURSES	PCS MOVES
1	USR1	USR2		1.00

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APPENDIX C

Appendix C contains a copy of each summary input data collection form. Definitions are provided in the Data Collection Workbook Appendix 3, TTO-AM-032-81-AP3.

W O R K B R E A K D O W N S T R U C T U R E

D A T A B A S E

DEFENSE MATERIEL SYSTEM
LIFE CYCLE COST MODEL

WBS INPUT SHEET-DEMONSTRATION&VALIDATION

SYSTEM _____

DATE _____

WBS # _____

DESCRIPTION	DVAL#	VALUE/REFERENCE			
BASE YEAR \$ (YY)	1				
INFLATION TABLE-LABOR(#)	2				
INFLATION TABLE-MATERIAL(#)	3				
DEMONSTRATION&VALIDATION	4*				
LABOR FLAG(U,1)	>5				
DEVELOPMENT ENGINEERING(\$)	>6*				
MECH ENG(\$,HRS)	>>7				
ELEC ENG(\$,HRS)	>>8				
DRAFTING(\$,HRS)	>>9				
DTC/LCC(\$,HRS)	>>10				
RAM(\$,HRS)	>>11				
EQUIPMENT(\$)	>>12				
UTHER(\$)	>>13				
PROD ENG&PLANNING(\$,HRS)	>14				
TOOLING(\$)	>15*				
PROGRAMS(\$,HRS)	>>16				
LABOR(\$,HRS)	>>17				
MATERIAL(\$)	>>18				
MFR EQUIP(\$)	>>19				
TEST EQUIP(\$)	>>20				
UTHER(\$)	>>21				
PROTOTYPE MFR (\$)	>22*				
MFR LABOR(\$,HRS)	>>23				
TEST LABOR(\$,HRS)	>>24				
MATERIAL(\$)	>>25				
PURCHASED PARTS/ASSYS(\$)	>>26				
UTHER(\$)	>>27				
UTHER(\$)	>28				
TRACE(\$)	29				

* CARRIAGE RETURN TO ENTER DETAILS:>
ENTER A VALUE TO SKIP THE DETAILS MARKED >

DEFENSE MATERIEL SYSTEM
LIFE CYCLE COST MODEL

WBS INPUT SHEET-FULL SCALE DEVELOPMENT

SYSTEM _____

DATE _____

WBS # _____

DESCRIPTION	FSD#	VALUE/REFERENCE			
BASE YEAR \$ (YY)	1				
INFLATION TABLE-LABOR(#)	2				
INFLATION TABLE-MATERIAL(#)	3				
FULL SCALE DEVELOPMENT(\$)	4 [®]				
LABOR FLAG(0,1)	>5				
DEVELOPMENT ENGINEERING(\$)	>6 [®]				
MECH ENG(\$,HRS)	>>7				
ELEC ENG(\$,HRS)	>>8				
DRAFTING(\$,HRS)	>>9				
DTC/LCC(\$,HRS)	>>10				
RAM(\$,HRS)	>>11				
EQUIPMENT(\$)	>>12				
UTHER(\$)	>>13				
PROD ENG&PLANNING(\$,HRS)	>14				
TOOLING(\$)	>15 [®]				
PROGRAMS(\$,HRS)	>>16				
LABOR(\$,HRS)	>>17				
MATERIAL(\$)	>>18				
MFR EQUIP(\$)	>>19				
TEST EQUIP(\$)	>>20				
UTHER(\$)	>>21				
PROTOTYPE MFR (\$)	>22 [®]				
MFR LABOR(\$,HRS)	>>23				
TEST LABOR(\$,HRS)	>>24				
MATERIAL(\$)	>>25				
PURCHASED PARTS/ASSYS(\$)	>>26				
OTHER(\$)	>>27				
UTHER(\$)	>28				
TRACE(\$)	29				

® CARRIAGE RETURN TO ENTER DETAILS:>

ENTER A VALUE TO SKIP THE DETAILS MARKED >

DEFENSE MATERIEL SYSTEM
LIFE CYCLE COST MODEL

WBS INPUT SHEET-PRODUCTION

SYSTEM _____

DATE _____

WBS # _____

DESCRIPTION	PROD#	VALUE/REFERENCE
BASE YEAR \$ (YY)	1	
INFLATION TABLE-LABOR(#)	2	
INFLATION TABLE-MATERIAL(#)	3	
RECURRING PROD(\$/UNIT)	4®	
LABOR FLAG(0,1)	>5	
MATERIAL(\$/UNIT)	>6	
SUBCONTRACTED ITEMS(\$/UNIT)	>7	
PURCH PARTS&ASSYS(\$/UNIT)	>8	
FABRICATION(\$,HRS/UNIT)	>9	
ASSEMBLY(\$,HRS/UNIT)	>10	
SUPT LABOR(\$,HRS/UNIT)	>11	
QUALCNTRL&INSP(\$,HRS/UNIT)	>12	
SUSTAIN ENG(\$,HRS/UNIT)	>13	
DESIGN ASSR(\$,HRS/UNIT)	>14	
PACKAGING(\$/UNIT)	>15	
SUSTAIN TOOLING(\$)	>16®	
PROGRAMS(\$,HRS/UNIT)	>>17	
LABOR(\$,HRS/UNIT)	>>18	
MATERIAL(\$/UNIT)	>>19	
MFR EQUIP(\$/UNIT)	>>20	
TEST EQUIP(\$/UNIT)	>>21	
UTHER(\$/UNIT)	>>22	
PROGRAM MGT(\$,HRS/UNIT)	>23	
UTHER(\$/UNIT)	>24	
NON RECURRING PROD(\$)	25®	
TOOLING(\$)	>26®	
PROGRAMS(\$,HRS)	>>27	
LABOR(\$,HRS)	>>28	
MATERIAL(\$)	>>29	
MFR EQUIP(\$)	>>30	
TEST EQUIP(\$)	>>31	
UTHER(\$)	>>32	
FACILITIES(\$)	>33	
ENGINEERING(\$,HRS)	>34	
OTHER(\$)	>35	

® CARRIAGE RETURN TO ENTER DETAILS >
ENTER A VALUE TO SKIP THE DETAILS MARKED >

DEFENSE MATERIEL SYSTEM
LIFE CYCLE COST MODEL

WBS INPUT SHEET-DTUPC/DTC

SYSTEM _____

DATE _____

WBS # _____

DESCRIPTION	DTUPC#	VALUE/REFERENCE
GFE QUANTITY DEM-VAL(#)	1	
GFE QUANTITY FSD (#)	2	
GFE QUANTITY PROD NR(#)	3	
GFE QUANTITY PROD R(#)	4	
DTUPC DATE(Y)	5	
DTUPC DATE(M)	6	
DTUPC GOAL (\$)	7	
DTUPC GOAL QUANTITY(#)	8	
LEARNING CURVE LABOR(%)	9	
LEARNING CURVE MATERIAL(%)	10	
LOT(#)	11	
LOT BUY QUANTITY(#)	12	
NUMBER PREVIOUSLY BUILT(#)	13	
START DATE(Y)	14	
START DATE (M)	15	
PRODUCTION RATE(#/MO)	16	
TRACE	17	
RIW(\$/UNIT/YEAR)	18	
RIW PERIOD (YEARS)	19	
ENGINEERING CHANGES (\$,%)	20	

Defense Materiel System
Life Cycle Cost Model

SYSTEM _____
DATE _____

WBS Input Sheet-EQUIPMENT

WBS # _____

<u>Description</u>	<u>EQUIP#</u>	<u>Value/Reference</u>	<u>Value/Reference</u>	<u>Value/Reference</u>	<u>Value/Reference</u>
Operating Equip Quantity (#)	1				
Operating Hours (hr/yr)	2				
Num Shared Opers/Equip(#)	3				
Equipment Weight (lbs)	4				
Wt of Average LRU (lbs)	5				
Avg Discard LRU Cost(\$)	6				
Avg Repairable LRU Cost(\$)	7				
Repair Material Cost (%)	8				
Repair Material Wt (lbs)	9				
Oper Material Cons(Units/yr)	10				
Material Type (1, 2, 3)	11				
Material Cost (\$/unit)	12				
Material Weight (lbs/unit)	13				
Power Cons (units/hr,cycle)	14				
Power Type (1, 2, 3)	15				
Field Power Cost (\$/unit)	16				
Comm Power Cost (\$/unit)	17				
Wt of Power (lbs/unit)*	18				
Field Power Use Fac (%)	19				
Comm Power Use Fac (%)	20				
Battery Power Use Factor (%)	21				
MTBF (hrs)	22				
Training Attrition Rate (%)	23				
MTTR Organization (hrs)	24				
MTTR Intermediate (hrs)	25				
MTTR DSU (hrs)	26				
MTTR DSUCT (hrs)	27				
MTTR GSU (hrs)	28				
MTTR GSUCT (hrs)	29				
MTTR Depot (hrs)	30				
Prevent Maint (hrs/yr)	31				
Calibrate DSU(hrs/yr)	32				
Calibrate GSU(hrs/yr)	33				
Calibrate depot(hrs/yr)	34				

* Does not apply to power type 2(electricity)

Defense Materiel System
Life Cycle Cost Model

WBS Input Sheet-MAINTENANCE

SYSTEM _____

DATE _____

WBS #

<u>Description</u>	<u>MAINT#</u>	<u>Value/Reference</u>		
Ann Mod Cost Fact(lab+mat) %	1®			
Mean Time to Mod-DEP(Mhrs)	>2			
Mean Time to Mod-Fld(Mhrs)	>3			
Mod Mat Cost Fact-Fld(%)	>4			
Mod Rate Depot(%)	>5			
Mod Rate Field (%)	>6			
Overhaul Sched (yrs)	7			
Mean Overhaul Time (Mhrs)	8			
Depot Labor Rate(\$/hr)	9			
Depot Material Rate (\$/hr)	10			
Discard Rate Org(%)	11			
Discard Rate Int(%)	12			
Discard Rate DSUCT(%)	13			
Discard Rate DSU(%)	14			
Discard Rate GSUCT(%)	15			
Discard Rate GSU(%)	16			
Maint Rate Operator(%)	17			
Maint Rate Organization (%)	18			
Maint Rate Intermediate (%)	19			
Maint Rate DSU (%)	20			
Maint Rate DSUCT (%)	21			
Maint Rate GSU (%)	22			
Maint Rate GSUCT (%)	23			
Maint Rate Depot (%)	24			
Repair Rate Organization (%)	25			
Repair Rate Intermediate (%)	26			
Repair Rate DSU (%)	27			
Repair Rate DSUCT (%)	28			
Repair Rate GSU (%)	29			
Repair Rate GSUCT (%)	30			
Repair Rate Depot (%)	31			

® Carriage return to enter details: >

Enter a value to skip entries marked >

DEFENSE MATERIEL SYSTEM
LIFE CYCLE COST MODEL

WBS INPUT SHEET-MAINTENANCE

SYSTEM _____

DATE _____

WBS #

| _____ | | _____ | | _____ | | _____ |

<u>DESCRIPTION</u>	<u>MAINT#</u>	<u>VALUE/REFERENCE</u>			
REPAIR OVERHEAD URG (HRS)	32	_____	_____	_____	_____
REPAIR OVERHEAD INT (HRS)	33	_____	_____	_____	_____
REPAIR OVERHEAD DSUCT (HRS)	34	_____	_____	_____	_____
REPAIR OVERHEAD DSU (HRS)	35	_____	_____	_____	_____
REPAIR OVERHEAD GSUCT (HRS)	36	_____	_____	_____	_____
REPAIR OVERHEAD GSU (HRS)	37	_____	_____	_____	_____
REPAIR OVERHEAD DEPOT(HRS)	38	_____	_____	_____	_____
PROB GOOD UNIT REM-ORG(%)	39	_____	_____	_____	_____
PROB GOOD UNIT REM-INT(%)	40	_____	_____	_____	_____
PROB GOOD UNIT REM-DSUCT(%)	41	_____	_____	_____	_____
PROB GOOD UNIT REM-DSU(%)	42	_____	_____	_____	_____
PROB GOOD UNIT REM-GSUCT(%)	43	_____	_____	_____	_____
PROB GOOD UNIT REM-GSU(%)	44	_____	_____	_____	_____
PROB GOOD UNIT REM-DEPOT(%)	45	_____	_____	_____	_____

THE PERSONNEL DATA BASE

The personnel data base is designed to give the analyst extensive flexibility in structuring personnel requirements. The model's internal data files contain all factors related to costing personnel requirements. Those set by law or Service policy are not subject to user change (pay rates, allowances, support costs) to insure comparability between estimates. The user may enter training costs and turnover rates or use the values in the internal files. All internal values are taken from DoD or Service reports and may be listed by the analyst. Any errors detected in internal data should be reported to the Program Support Team.

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DEFENSE SYSTEM LIFE CYCLE COST MODEL

DATE _____
SYSTEM _____

CIVILIAN TABLE OF ORGANIZATION

[illegible]

THE TRAINING TRACK DATA BASE

The training track data base is designed to allow the analyst to specify the sequence of courses associated with formal training for any line in the Table of Organization. This gives the analyst complete control over recurring training costs as a function of grade, MOS and billet requirements.

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DATE: _____
SYSTEM: _____

[illegible]

** Reference ID from the Bibliography. Do not make an entry.
This is used for audit trail purposes only.

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USER TRAINING COURSE DATA BASE

The user training course data base allows the user to define new courses of instruction or to describe current courses of instruction which may not already be resident in the Life Cycle Cost Model's internal data files.

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DATE _____
SYSTEM _____[illegible]

* USR course ID number will be assigned by the Model
 ** References from the bibliography. Do not make an entry for reference.

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ASSUMPTIONS DATA BASE

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DEFENSE LIFE CYCLE COST MODEL
ASSUMPTIONS INPUT

DATE: _____
SYSTEM: _____

<u>Description</u>	<u>A#</u>	<u>Value/Reference</u>
YEARS OF OPERATION	A1	_____
INITIAL PROVISIONING COST FACTOR (%)	A2	_____
INVENTORY INTRODUCTION \$	A3	_____
INVENTORY MANAGEMENT \$1-5000 (\$/YR)	A4	_____
INVENTORY MANAGEMENT \$5000-49,999 (\$/YR)	A5	_____
INVENTORY MNGMT \$50,000-500,000 (\$/YR)	A6	_____
INVENTORY MANAGEMENT \$500,000 + (\$/YR)	A7	_____
not used	A8	_____
DISTANCE BET ORG AND INT LEVEL (MILES)	A9	_____
DISTANCE DSU-GSU (MILES)	A10	_____
DISTANCE BET INT AND DEP (CONUS) (MILES)	A11	_____
DISTANCE BET INT AND DEP (EUROPE) (MILES)	A12	_____
DISTANCE BET INT AND DEP (WESTPAC) (MILES)	A13	_____
SHORT DISTANCE TRANS FACTOR (\$/LBS/MILE)	A14	_____
LONG DISTANCE TRANS ACTOR (\$/LBS/MILE)	A15	_____
TRUCK RATES (\$/TON MI)	A16	_____
RAIL RATES (\$/TON-MILE)	A17	_____
SEA RATES (\$/TON-MI)	A18	_____
AIR RATES (\$/TON-MI)	A19	_____
AVAILABLE MANHOURS PER YEAR(FIELD MAINT)	A20	_____
AVAILABLE MANHOURS PER YEAR(OPEATORS)	A21	_____
not used	A22	_____
REPLENISHMENT FACTOR (%)	A23	_____
STORAGE COST FACTOR (%)	A24	_____
SHRINKAGE COST FACTOR (%)	A25	_____
OUT OF STOCK FACTOR (%)	A26	_____
SUPPLY PERSONNEL COST FACTOR (%)	A27	_____
DOD DISCOUNT RATE	A28	_____
not used	A29	_____
PIPELINE TIME ORG (DAYS)	A30	_____
PIPELINE TIME INTERMEDIATE (DAYS)	A31	_____
PIPELINE TIME DSU (DAYS)	A32	_____
PIPELINE TIME GSU (DAYS)	A33	_____
PIPELINE TIME DEPOT (CONUS) (DAYS)	A34	_____
PIPELINE TIME DEPOT (EUROPE) (DAYS)	A35	_____
PIPELINE TIME DEPOT (WESPAC) (DAYS)	A36	_____

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OPERATIONS AND MAINTENANCE SYSTEM LEVEL INPUT SHEETS

The analyst may enter costs at any level in the attached cost structure suitable to the availability of data and the management detail required by the program decision environment. These are system costs. Costs for the operation and maintenance of the hardware items themselves are computed based on the work breakdown structure data base.

Note: the model will automatically skip lower level inputs if a higher level input is made. The model uses the lower level entries for calculations if they are made using the editor after a higher level entry has been made.

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DEFENSE LIFE CYCLE COST MODEL
O&S COST INPUTS (PAGE 1 of 2)

DATE: _____
SYSTEM: _____

	<u>Description</u>	<u>O#</u>	<u>Value/Reference</u>
314	OPERATIONAL FACILITIES COST(\$/YR)	@1	_____
	NUMBER OF OPERATIONAL UNITS(CONUS)	>2	_____
	NUMBER OF OPERATIONAL UNITS(EUROPE)	>3	_____
	NUMBER OF OPERATIONAL UNITS(WESTPAC)	>4	_____
	NUMBER OF OPNL UNITS W/FACILITIES	>5	_____
	SIZE OF AVG OPERATIONAL SITE(FT2)	>6	_____
	FACILITY MAINT COST (\$/FT2/YR)	>7	_____
316	OPERATIONAL TRANSPORTATION(\$/YR)	@8	_____
	TRAINING TRANS MILES/YEAR TRUCK	>9	_____
	TRAINING TRANS MILES/YEAR RAIL	>10	_____
	TRAINING TRANS MILES/YEAR SEA	>11	_____
	TRAINING TRANS MILES/YEAR AIR	>12	_____
	OPER UNIT LIFT WT(TONS)	>13	_____
	OPR UNIT VOLUME(CUFT)	>14	_____
315	OPERATING EQUIP LEASEHOLDS(\$/YR)	@15	_____
	LEASEHOLDS/OPERATING SITE(\$/YR/SITE)	>16	_____
317	OTHER OPERATING COSTS(\$/YR)	@17	_____
	PROC	>18	_____
	O&M	>19	_____
	OPROC	>20	_____
	MILPER	>21	_____
321.4	ORGANIZATION MAINT FAC COST(\$/YR)	@22	_____
	NUMBER OF ORG MAINT SITES	>23	_____
	SIZE OF ORG MAINT SITE(FT2)	>24	_____
	ORG MAINT FLOOR AREA COST(\$/FT2/YR)	>25	_____
322.4	INT MAINT FACILITIES COST(\$/YR)	@26	_____
	NUMBER OF INT MAINT SITES	>27	_____
	SIZE OF INT MAINT SITE(FT2)	>28	_____
	INT MAINT FLOOR AREA COST(\$/FT2/YR)	>29	_____
325.2	MAINT OF OPR S/W CENTER(\$/YR)	30	_____
325.3	CONTRACT MAINT OF OPR S/W(\$/YR)	@31	_____
	NUMBER YRS CONTRACT MAINT OPR S/W	>32	_____
	NUMBER YRS GOV MAINT OF OPR S/W	>33	_____
326.2	MAINT OF M&D S/W CENTER(\$/YR)	34	_____
326.3	CONTRACT MAINT OF M&D S/W(\$/YR)	@35	_____
	NUMBER YRS CONTRACT MAINT M&D S/W	>36	_____
	NUMBER YRS GOV MAINT OF M&D S/W	>37	_____
327	CONTRACTOR SERVICES(\$/YR)	@38	_____
	NUMBER YEARS CONTRACTOR SUPPORT	>39	_____

DEFENSE LIFE CYCLE COST MODEL
O&S COST INPUTS (PAGE 2 of 2)

DATE: _____
SYSTEM: _____

<u>Description</u>	<u>O#</u>	<u>Value/Reference</u>
342 SUPPLY FACILITIES(\$/YR)	@40	
342.1 MAINT ORG SUPPLY FAC(\$/YR)	>41	
ORG SUPPLY REQUIREMENT(FT2/SITE)	>>42	
342.2 MAINT INT SUPPLY FAC(\$/YR)	>43	
INT SUPPLY REQUIREMENT(FT2/SITE)	>>44	
342.3 MAINT FIELD DEP SUPPLY FAC(\$/YR)	>45	
FIELD DEPOT SUPPLY RQMT(FT2/SITE)	>>46	
NUMBER OF FIELD DEPOT SUPPLY SITES	>>47	
342.4 BONDED STORAGE COST(\$/YR)	>48	
NUMBER OF BONDED STORAGE SITES	>>49	
COST PER BONDED STORAGE SITE(\$/YR)	>>50	
350 TECH DATA REVISIONS(\$/YR)	@51	
TECH DATA REVISION COSTS(\$/PAGE)	>52	
TECH DATA PAGES REQ REVISION(PAGES)	>53	
NUMBER NEW FSN/NSN UNDER \$5K	54	
NUMBER NEW FSN/NSN \$5-50K	55	
NUMBER NEW FSN/NSN \$50-500K	56	
NUMBER NEW FSN/NSN OVER \$500K	57	
360 OTHER LOGISTIC SUPPORT COSTS(\$/YR)	@58	
PROC	>59	
O&M	>60	
O PROC	>61	
MIL PER	>62	

DEPLOYMENT
INPUT SHEET

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SYSTEM _____
DATE _____

SCHEDULE INPUT SUMMARY SHEET

PHASE	START YEAR MO	END YEAR MO	REFERENCE
CF&V			
FSD			
Production			

ENTER AT LEAST 1 SHIPMENT

REFERENCE _____

DEPLOYMENT SHIPMENT	START DATE (YEAR/MO)	% TOTAL EQUIPMENT R(009) TO BE SHIPPED*	DELIVERY PERIOD (NUMBER OF MONTHS)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

*Decimal values should sum to 1.00--"All" may be used if there is only one shipment.

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RESEARCH AND DEVELOPMENT SYSTEM LEVEL INPUT SHEETS

The analyst may enter costs at any level in the attached cost structure suitable to the availability of data and the management detail required by the program decision environment. An entry at any of the higher levels in the cost structure will cause the model to skip all lower levels of detail for that cost element. Points in the cost structure where a value will cause the model to skip subsequent inputs are shown with a ®. All elements directly below the ® will be skipped. A carriage return will cause the model to prompt for the lower level items marked with a >.

These inputs are for all program management costs, and are not for those costs actually incurred in the design and development of the hardware and software items themselves. These are computed based on inputs to the work breakdown structure data base. Detailed definitions for all of the cost elements are contained in the data collection workbook.

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DEFENSE SYSTEM LIFE CYCLE COST MODEL
R&D COST INPUTS (PAGE 1 of 4)

DATE: _____
SYSTEM: _____

DEMONSTRATION&VALIDATION-CONTRACTOR

	<u>Description</u>		<u>Value/Reference</u>
100	RESEARCH & DEVELOPMENT	®	_____
110	DEMONSTRATION AND VALIDATION	>®	_____
111	CONTRACTOR	>>®	_____
111.12	SYSTEM/PROJECT MANAGEMENT	>>>	_____
111.13	SYSTEM TEST & EVALUATION	>>>	_____
111.14	TRAINING	>>>	_____
111.15	DATA	>>>®	_____
111.15.1	ENGINEERING	>>>>	_____
111.15.2	MANAGEMENT	>>>>	_____
111.15.3	LOGISTICS SUPPORT	>>>>	_____
111.15.4	SOFTWARE SUPPORT	>>>>	_____
111.16	INDUSTRIAL FACILITIES	>>>®	_____
111.16.1	RDT&E	>>>>	_____
111.16.2	MILCON	>>>>	_____
111.17	SOFTWARE CENTER	>>>®	_____
111.17.1	RDT&E	>>>>	_____
111.17.2	MILCON	>>>>	_____
111.18	OTHER	>>>®	_____
111.18.1	RDT&E	>>>>	_____
111.18.2	O&M	>>>>	_____
111.18.3	OP	>>>>	_____
111.18.4	PROC	>>>>	_____

® Carriage Return to enter details: >
Enter a value to skip details under the ®

DEFENSE SYSTEM LIFE CYCLE COST MODEL
R&D COST INPUTS (PAGE 2 of 4)

DATE: _____
SYSTEM: _____

DEMONSTRATION&VALIDATION-GOVERNMENT

<u>Description</u>		<u>Value/Reference</u>
112	GOVERNMENT	>>>®
112.12	PROGRAM MNGMNT	>>>>®
112.12.1	PROGRAM MANAGEMENT MILITARY	>>>>
112.12.2	PROGRAM MANAGEMENT CIVILIAN	>>>>
112.12.3	PGM MGT CONTRACTOR SUPPORT	>>>>
112.13	GOVERNMENT TEST(DT/OT I)	>>>>®
112.13.1	TEST SITE ACTIVATION	>>>>
112.13.2	DEVELOPMENT TEST I	>>>>
112.13.3	OPERATIONAL TEST I	>>>>
112.14	TRAINING	>>>
112.15	FACILITIES	>>>>®
112.15.1	RDT&E	>>>>
112.15.2	MILCON	>>>>
112.16	SOFTWARE CENTER	>>>>®
112.16.1	RDT&E	>>>>
112.16.2	MILCON	>>>>
112.16.3	PROC	>>>>
112.17	OTHER	>>>>®
112.17.1	RDT&E	>>>>
112.17.2	O&M	>>>>
112.17.3	OP	>>>>
112.17.4	PROC	>>>>

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Enter a value to skip details under the ®

DEFENSE SYSTEM LIFE CYCLE COST MODEL
R&D COST INPUTS (PAGE 3 of 4)

DATE: _____
SYSTEM: _____

FSD-CONTRACTOR

120	FULL SCALE DEVELOPMENT	>®	_____
121	CONTRACTOR	>>®	_____
121.12	SYSTEM/PROJECT MANAGEMENT	>>>®	_____
121.12.1	SYSTEM ENGINEERING	>>>>	_____
121.12.2	PROJECT MANAGEMENT	>>>>	_____
121.13	SYSTEM TEST & EVALUATION	>>>®	_____
121.13.1	MOCKUPS	>>>>	_____
121.13.2	TEST & EVALUATION SUPPORT	>>>>	_____
121.13.3	TEST FACILITIES	>>>>	_____
121.14	TRAINING	>>>®	_____
121.14.1	EQUIP	>>>>	_____
121.14.2	SERVICES	>>>>	_____
121.14.3	FACILITIES	>>>>®	_____
121.14.3.1	RDT&E	>>>>>	_____
121.14.3.2	MILCON	>>>>>	_____
121.15	DATA	>>>®	_____
121.15.1	TECH ORDERS & MANUALS	>>>>	_____
121.15.2	ENGINEERING	>>>>	_____
121.15.3	MANAGEMENT	>>>>	_____
121.15.4	LOGISTICS SUPPORT	>>>>	_____
121.15.5	SOFTWARE SUPPORT	>>>>	_____
121.16	INDUSTRIAL FACILITIES	>>>®	_____
121.16.1	RDT&E	>>>>	_____
121.16.2	MILCON	>>>>	_____
121.16.3	PROCUREMENT	>>>>	_____
121.17	SOFTWARE CENTER	>>>®	_____
121.17.1	RDT&E	>>>>	_____
121.17.2	MILCON	>>>>	_____
121.17.3	PROCUREMENT	>>>>	_____
121.18	OTHER	>>>®	_____
121.18.1	RDT&E	>>>>	_____
121.18.2	O&M	>>>>	_____
121.18.3	OP	>>>>	_____
121.18.4	PROC	>>>>	_____

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Enter a value to skip details under the ®

DEFENSE SYSTEM LIFE CYCLE COST MODEL
R&D COST INPUTS (PAGE 4 of 4)

DATE: _____
SYSTEM: _____

FSD-GOVERNMENT

<u>Description</u>			<u>Value/Reference</u>
122	GOVERNMENT	>>®	_____
122.12	PROGRAM MANAGEMENT	>>>®	_____
122.12.1	PROGRAM MANAGEMENT MILITARY	>>>>	_____
122.12.2	PROGRAM MANAGEMENT CIVILIAN	>>>>	_____
122.12.3	PGM MGT CONTRACTOR SUPPORT	>>>>	_____
122.13	GVRNMNT TEST (DT/OT II)	>>>®	_____
122.13.1	TEST SITE ACTIVATION	>>>>	_____
122.13.2	DEVELOP TEST & EVAL (DT-II)	>>>>	_____
122.13.3	OPRTNL TEST & EVAL (OT-II)	>>>>®	_____
122.13.3.1	RDT&E	>>>>>	_____
122.13.3.2	O&M	>>>>>	_____
122.13.3.3	PROC	>>>>>	_____
122.14	TRAINING	>>>	_____
122.15	FACILITIES	>>>®	_____
122.15.1	RDT&E	>>>>	_____
122.15.2	MILCON	>>>>	_____
122.16	SOFTWARE CENTER	>>>®	_____
122.16.1	RDT&E	>>>>	_____
122.16.2	MILCON	>>>>	_____
122.16.3	PROC	>>>>	_____
122.17	OTHER	>>>®	_____
122.17.1	RDT&E	>>>>	_____
122.17.2	O&M	>>>>	_____
122.17.3	OP	>>>>	_____
122.17.4	PROC	>>>>	_____

® Carriage Return to enter details: >
Enter a value to skip details under the ®

PRODUCTION (INVESTMENT) SYSTEM LEVEL INPUT SHEETS

The analyst may enter costs at any level in the attached cost structure suitable to the availability of data and the management detail required by the program decision environment. An entry at any of the higher levels in the cost structure will cause the model to skip all lower levels of detail for that cost element. Points in the cost structure where a value will cause the model to skip lower level inputs are shown with a @. All elements directly below the @ will be skipped. A carriage return will cause the model to prompt for the lower level items marked with a >.

These inputs are for all program management costs, and are not for those costs actually incurred in the production of the hardware and software items themselves. These are computed based on inputs to the work breakdown structure data base. Detailed definitions for all of these cost elements are contained in the data collection workbook.

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DEFENSE SYSTEM LIFE CYCLE COST MODEL
 PRODUCTION INPUTS (PAGE 1 of 4)

DATE: _____
 SYSTEM: _____

CONTRACTOR-NONRECURRING

	<u>Description</u>		<u>Value/Reference</u>
200	PRODUCTION	®	_____
210	PRODUCTION (NON-RECURRING)	>®	_____
211	CONTRACTOR	>>®	_____
211.12	SYSTEM/PROJECT MNGMNT	>>>®	_____
211.12.1	SYSTEM ENGINEERING	>>>>	_____
211.12.2	PROJECT MANAGEMENT	>>>>	_____
211.13	TRAINING	>>>®	_____
211.13.1	EQUIPMENT	>>>>	_____
211.13.2	SERVICES	>>>>	_____
211.13.3	FACILITIES	>>>>®	_____
211.13.3.1	PROC	>>>>>	_____
211.13.3.2	MILCON	>>>>>	_____
211.14	PRODUCTION STARTUP	>>>®	_____
211.14.1	TOOLING	>>>>	_____
211.14.2	PRODUCTION ENGINEERING	>>>>	_____
211.14.3	FACILITIES	>>>>®	_____
211.14.3.1	PROC	>>>>>	_____
211.14.3.2	MILCON	>>>>>	_____
211.15	DATA	>>>®	_____
211.15.1	TECH ORDERS & MANUALS	>>>>	_____
211.15.2	ENGINEERING	>>>>	_____
211.15.3	MANAGEMENT	>>>>	_____
211.15.4	SUPPORT	>>>>	_____
211.15.5	SOFTWARE SUPPORT	>>>>	_____
211.16	INITIAL SPARES & REPAIR PARTS	>>>®	_____
211.17	SYSTEM TEST & EVAL SUPT	>>>®	_____
211.18	SOFTWARE CENTER	>>>®	_____
211.19	CONTRACTOR TECH SUPPORT	>>>®	_____
211.20	OTHER	>>>®	_____
211.20.1	PROC	>>>>	_____
211.20.2	RDT&E	>>>>	_____
211.20.3	O&M	>>>>	_____

® Carriage Return to enter details: >
 Enter a value to skip details under ®

DEFENSE SYSTEM LIFE CYCLE COST MODEL
PRODUCTION INPUTS (PAGE 2 of 4)

DATE: _____
SYSTEM: _____

GOVERNMENT NON-RECURRING

<u>Description</u>		<u>Value/Reference</u>
212.	GOVERNMENT	>>®
212.12	INITIAL TRAINING	>>>®
212.12.1	EQUIPMENT	>>>>
212.12.2	SERVICES	>>>>
212.12.3	FACILITIES	>>>>®
212.12.3.1	MILCON	>>>>>
212.12.3.2	PROC	>>>>>
212.12.4	STUDENT COSTS	>>>>
212.13	SYSTEM TEST & EVALUATION	>>>®
212.13.1	PROD ACPT TEST&EVAL(PATE)	>>>>®
212.13.1.1	PROC	>>>>>
212.13.1.2	OP	>>>>>
212.13.1.3	MP	>>>>>
212.13.2	OPRTNL TEST & EVAL(OT&E)	>>>>®
212.13.2.1	PROC	>>>>>
212.13.2.2	OP	>>>>>
212.13.2.3	MP	>>>>>
212.14	TEST SITE ACTIVATION	>>>
212.15	TECH ORDERS AND MANUALS	>>>®
212.16	SOFTWARE CENTER	>>>
212.17	INVENTORY MANAGEMENT	>>>
212.18	INDUSTRIAL FACILITIES	>>>®
212.18.1	CONST/CONVERT/EXPAND	>>>>®
212.18.1.1	PROC	>>>>>
212.18.1.2	MILCON	>>>>>
212.18.2	EQUIP ACQUITN OR MODERNIZE	>>>>®
212.19	OTHER	>>>®
212.19.1	PROC	>>>>
212.19.2	O&M	>>>>
212.19.3	OP	>>>>

® Carriage Return to enter details: >
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DEFENSE SYSTEM LIFE CYCLE COST MODEL
 PRODUCTION COST INPUTS (PAGE 3 of 4)

DATE: _____
 SYSTEM: _____

CONTRACTOR-RECURRING

<u>Description</u>		<u>Value/Reference</u>
220	PRODUCTION(RECURRING)	>® _____
221.	CONTRACTOR	>>® _____
221.12	SYSTEM/PROJECT MNGMNT	>>>® _____
221.12.1	SYSTEM ENGINEERING	>>>> _____
221.12.2	PROJECT MANAGEMENT	>>>> _____
221.13	INITIAL TRAINING	>>> _____
221.14	DATA DEPOSITORY(PROD)	>>> _____
221.15	MAINTENANCE INDUSTRIAL FCLTYS	>>> _____
221.16	ENGINEERING CHANGES	>>> _____
221.17	DATA	>>> _____
221.18	INITIAL SPARES/REPAIR PARTS	>>> _____
221.19	SYSTEM TEST & EVAL SUPPORT	>>> _____
221.20	TRANSPORTATION	>>> _____
221.21	OTHER	>>>® _____
221.21.1	PROC	>>>> _____
221.21.2	O&M	>>>> _____
221.21.3	OP	>>>> _____

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DEFENSE SYSTEM LIFE CYCLE COST MODEL
 PRODUCTION COST INPUTS (PAGE 4 of 4)

DATE: _____
 SYSTEM: _____

GOVERNMENT-RECURRING

<u>Description</u>		<u>Value/Reference</u>
222.	GOVERNMENT(RECURRING)	>>®
222.12	PROGRAM MANAGEMENT	>>>®
222.12.1	PROGRAM MANAGEMENT MILITARY	>>>>
222.12.2	PROGRAM MANAGEMENT CIVILIAN	>>>>
222.12.3	CONTRACTOR SUPPORT	>>>>
222.13	TRANSPORTATION	>>>
222.14	OPERATIONAL/SITE ACTIVATION	>>>®
222.14.1	PROC	>>>>
222.14.2	MILCON	>>>>
222.14.3	MILPER	>>>>
222.14.4	O&M	>>>>
222.15	QUALITY CONTROL AND INSPECTION	>>>®
222.15.1	PROC	>>>>
222.15.2	O&M	>>>>
222.15.3	MILPER	>>>>
222.16	SUPPORT ENGINEERING	>>>
222.17	INITIAL TRAINING	>>>®
222.17.1	NEW EQUIP TRAIN TEAMS	>>>>®
222.17.1.1	MILPER	>>>>>
222.17.1.2	PROC	>>>>>
222.17.2	INITIAL OPER TRAINING	>>>>
222.18	SYSTEM TEST & EVAL(DT/OT III)	>>>®
222.18.1	PROC	>>>>
222.18.2	O&M	>>>>
222.18.3	MILPER	>>>>
222.19	INITIAL SPARES & REPAIR PARTS	>>>
222.20	OTHER	>>>®
222.20.1	PROC	>>>>
222.20.2	O&M	>>>>
222.20.3	OP	>>>>

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INFLATION RATES*
(OPTIONAL)

Year	R&D	Milcon	Procurement	O&M	OPN
19					
19					
19					
19					
19					
19					
19					
19					
19					
Outyears					

EQUIPMENT INFLATION RATE TABLE

YEAR	19	19	19	19	19	19	19	19	19	Outyears
RATE 1										
RATE 2										

APPLICABLE EQUIPMENT CATEGORIES

RATE 1 (ALL OR SPECIFY):														
RATE 2 (REMAINDER/SPECIFY):														

SOURCE: _____

*Only use this table if non-DOD rates are required.

BIBLIOGRAPHY

Source

19 DEC 85

U201763⁸⁰³⁰⁸

Joint Tactical Communications
Office.

TTO-AM-032-81-V3-AP-2.

SEP 11 85

19 DEC 85

21 APR 88

31 MAR 89

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30308

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80030

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