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#### ABSTRACT

The Life Cycle Cost Guide for Equipment Analysis updates and supercedes the Life Cycle Cost Guide for Government Furnished Equipment and its associated Customer Support Package. This document differs extensively from the previous guide in cost model structure, in equation and cost factor description, and in computer program structure. The major changes are:

• The total Life Cycle Cost was divided into three major cost elements: Research & Development, Investment, and Operation & Support;

• The entire Cost Breakdown structure was revised, new cost elements were added, and new equations and cost factors were introduced. Program Management and Termination Costs have also been included;

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(3) • Four types of yearly inflation rates (Research and Development Procurement, Military Construction, and Operation and Maintenance) and yearly discount rates were included to calculate costs in terms of inflated or inflated & discounted dollars;

(4) • A new computer program has been developed for this Guide: This program maintains the previous report structure; however, new reports are provided: Equations, Cost Adjustment factors, Funding by Cost Category, Cost Breakdown by Year, and Annual Cost by Funding Type. These reports are available in constant dollars, inflated dollars, or inflated & discounted dollars. The reports can be selectively requested.

() • The new computer program enables the analyst to modify the standard Life Cycle Cost Model to his specific project needs without making any program changes. The format of the reports is automatically adjusted for all changes.



#### MANAGEMENT SUMMARY

The Life Cycle Cost Guide for Equipment Analysis is a standardized and automated Life Cycle Cost Methodology provided by the Naval Material Command to be used in the Life Cycle Cost Analysis of equipments procured for the Navy.

The total Life Cycle Cost is divided into three major cost elements: Research & Development, Investment, and Operating & Support Costs. These cost elements are divided into 85 subcost elements, 61 of which comprise the basic equations. The basic equations are further defined by 104 cost factors.

Each equation is identified as belonging to a cost category, i.e., Contractor Payment, Program Management, Testing, Prime Equipment, Training, Supply Support, Technical Data, Support Equipment, Operation, or Maintenance, and a funding type i.e., Research & Development, Procurement, Construction, Operation & Maintenance, Military Personnel, or Others. The costs can be adjusted to reflect the time value of money.

The program provides 13 reports at different depths of detail and with various types of information. These reports are grouped into two basic categories:

A. Input Data Reports present the input data and the information built in the program in five formats to provide the basic information about the cost model, the cost factor description, values, and general remarks about the project.

#### These reports are:

- 1. Equations
- 2. Remarks
- 3. Dictionary
- 4. Variable Values
- 5. Cost Adjustment Factors

B. Output Reports present the calculated values of the Life Cycle Cost in eight formats. These reports are:

- 1. Summary
- 2. Funding by Cost Category
- 3. Cost Breakdown by Year
- 4. Cost Breakdown Totals
- 5. General Funding
- 6. Annual cost by Funding Type
- 7. Annual Cost by Cost Category
- 8. Sensitivity Analysis

The computer program developed for the Life Cycle Cost Equipment Model is designed to provide the analyst the flexibility to modify the standard Life Cycle Cost model to his specific project needs. The procedures are user-oriented and do not require any computer program changes. Using this technique, the analyst can redefine the entire cost structure.

This special programming technique provides the user a program readily available to be adopted to various types of cost models. This technique has been successfully demonstrated in many on-going projects and was also used for the development of the Major Weapon System Life Cycle Cost Model.

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# LIFE CYCLE COST GUIDE FOR EQUIPMENT ANALYSIS

I. SCOPE

The purpose of this guide is to provide a basic understanding of the methodology used in the LCC (Life Cycle Cost) analysis of equipment procured for the Navy. Figure I.l provides an overview of the LCC analysis approach for Naval Material Command procurements. Sections II & III and associated Appendices describe the Naval Material Command Equipment LCC methodology and the procedures for data collection. Sections IV, V & VI and associated Appendices describe the ADP (Automatic Data Processing) model available for use in calculating Life Cycle Cost.

By standardizing and automating the costing methodology, the Naval Material Command has provided the System Commands with an effective tool for using Life Cycle Costing in their procurement decisions.

II. LIFE CYCLE COST METHODOLOGY

Life cycle cost is defined as the total cost to the Government of acquisition and ownership of an equipment over its full life. It includes the cost of development, investment, and operating & support.

This section establishes a standardized life cycle cost estimating model for identifying and assembling cost elements and cost categories for Equipments.



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The life cycle cost breakdown structure provides a framework for collecting, analyzing, estimating, synthesizing, computerizing, and reporting life cycle costs. It provides a check list to assure that all pertinent costs are included in the analysis without duplication. It also provides the basic structure for keeping track of the various costs and aggregating them into summary cost elements. Each of the costs are identified by year and then adjusted as required in accordance with the time value of money theory as described in Appendix C (Inflation/Discounting Adjustment Factors).

The total life cycle cost is divided into three major cost elements: Research & Development, Investment, and Operating & Support costs. These cost elements are then divided into 85 sub-cost elements, 61 of which comprise the basic equations which quantify the major cost elements. The calculation of these costs and their summation into a total life cycle cost form the basis of the LCC Methodology. The standard cost equations in the LCC model uses 104 major cost factors. These factors are the bits and pieces of information which are usually generated during the process of equipment procurement, acquisition, and ownership.

The Life Cycle Cost Breakdown Structure and Equation Directory which identifies cost category, funding type,

and the inflation factor type assigned to each basic equation is provided in table II.1

Appendix A provides the basic cost equations and cost factor descriptions.

Appendix B provides an alphabetical listing of the 104 Life Cycle Cost factor names, descriptions, dimensions, and the likely source of information used in the cost equations.

Every cost equation identified in the Equipment Life Cycle Cost model is assigned to one of ten major cost categories. For reference purposes, each is assigned a numerical code. These Cost Categories and their assigned code numbers in the Equation Directory are:

Contractor Payment	1
Program Management	2
Testing	3
Prime Equipment	4
Training	5
Supply Support	6
Technical Data	7
Support Equipment	8
Operation	9
Maintenance	10

Every cost equation is assigned to one of six funding types. These funding types and their code numbers in the Equation Directory are:

Research & Development	1
Procurement	2
Construction	3
Operation & Maintenance	4
Military Personnel	5
Others	6

	LIFE CYCLE COST BREAKDOWN STRUCTURE AND EOUATION DIRECTORY	Cost	Fund	Infl.
CBS NO		Cat.	Type	Type
000000	TOTAL LIFE CYCLE			•
100000	RESEARCH AND DEVELOPMENT			
110000	Validation	•	,	,
111000	Contractor	1	1	1
112000	Government	2	1	1
120000	Full Scale Development			
121000	Contractor	-	•	•
121100	Management	Ţ	1 1	1
121200	Engineering	1	Ţ	1
121300	Prototype Hardware	1	1	1
121400	Software	1	1	1
121500	Test & Evaluation	Ţ	1	1
121600	Documentation	1	1	1
121700	Support & Test Equipment	1	1	1
122000	Government	-	•	
122100	Program Management	2	1	1
122200	Prototype Test & Evaluation	_	_	
122210	Training	5	5	4
122220	Test Site Activation	3	3	3
122230	Test & Evaluation	3	Ţ	T
200000	INVESTMENT			
210000	Government Program Management	2	2	1
220000	Prime Equipment Acquisition			
221000	Production Hardware	4	2	2
222000	Production Support & Services	4	2	2
223000	Production Test & Evaluation	3	2	2
224000	Transportation	4	2	2
225000	Installation and Checkout	4	2	2
230000	Initial Support Acquisition			
231000	Support & Test Equipment Acquisition	1 8	2	2
232000	Supply Support			
232100	Initial Spares			
232110	Prime Equipment	6	2	2
232120	Support & Test Equipment	6	2	2
232200	NSN Entry into the Supply System	6	4	4
233000	Facilities			
233100	Operational	9	3	3
233200	Maintenance	10	3	3
234000	Documentation			
234100	Acquisition	7	2	2
234200	Reproduction and Distribution	7	2	2
235000	Training			
235100	Operator	5	5	4
235200	O/I level Maintenance	5	5	4
235300	Depot level Maintenance	5	4	4
235400	Instructor	5	5	4
235500	Training Aids	5	2	2

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# Table II.1

#### LIFE CYCLE COST BREAKDGWN STRUCTURE AND EQUATION DIRECTORY

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CBS NO		Cost <u>Cat.</u>	Fund <u>Type</u>	Infl Type
300000	OPERATING AND SUPPORT			
310000	Operation			
311000	Personnel	9	5	4
312000	Facilities	9	3	3
313000	Energy Consumption	9	4	4
314000	Material Consumption	9	4	4
315000	Software Maintenance	9	4	4
320000	Support			
321000	Corrective Maintenance			
321100	Labor			
321110	O/I level (Remove & Replace)	10	5	4
321120	O/I level (Repair)	10	5	4
321130	Depot level (Repair)	10	4	4
321200	Repair Material	10	4	4
321300	Transportation and Packaging			
321310	Material Handling Labor	10	4	4
321320	Packaging Material	10	4	4
321330	Shipping	10	4	4
322000	Preventive Maintenance			
322100	Labor	10	5	4
322200	Material	10	4	4
323000	Overhaul			
323100	Labor	10	4	4
323200	Material	10	4	4
323300	Transportation	10	4	4
324000	Support & Test Equipment Maintenance	10	4	4
325000	Facilities			
325100	Shop Space	1.0	•	•
325110	0/I level	10	3	3
325120	Depot level	10	3	3
325200	Inventory Storage	1.0	-	~
325210	0/1 level	10	3	3
325220		10	3	3
326000	Documentation Maintenance	/	4	4
327000	Supply Support	~		
327100	Replenishment Spares	6	4	4
327200	Supply System Management	6	4	4
328000	Training	-	-	
328200	Uperator O/I Lowel Maintenance	2	2	4
320200	U/I Level Maintenance	2	2	4
320300	Termination	2 2	4	4
220000	TELMINALION	0	4	4

Table II.1 (Continued)

(

Each cost equation in the Equipment Life Cycle Cost model can be adjusted for the time value of money by one of four types of inflation factors and one discount factor. These inflation factors and their code numbers in the Equation Directory are:

R	&	D	1
Pı	cod	curement	2
Co	ons	struction	3
0	8	М	4

Operation & Maintenance and Military Personnel are assumed to use the same O&M type of inflation factor. Funding type "Others" could use any one of the inflation factors.

#### **III. DATA COLLECTION**

Life Cycle Cost analysis requires the collection and processing of 104 cost factors. The principle data sources are the System Project Office, the Contractor, and the Logistic Support organization. The Project Management Office will provide data concerning the system operations, acquisition costs, project schedules and various contractual related information. Information pertaining to the inherent design characteristics of the system will be available from the contractor. The ILS Manager and his Logistic Element Managers will have access to data on maintenance, personnel & training, technical data, transportation, etc., during the ownership period. The analyst will be required to provide all other cost factors by converting some of the raw data collected during the interviews into applicable information.

It is recommended that the cost equations' description presented in section II be used as a guide during the interviews.

The basic steps in the data collection and processing are the same whether life cycle costs are calculated manually or by using the ADP program. The ADP method simplifies the calculation requirements, but it also requires an analyst to become familiar with translating LCC factors into a format acceptable to a computer.

Sections IV & V will provide information on how to use the ADP technique for the NAVMAT LCC model. Section VI will present the FLEX technique on how to modify the standard NAVMAT Equipment LCC Model.

#### IV. AUTOMATIC DATA PROCESSING

Although an analyst can use the model without knowing all the details of the calculations, a general knowledge of the logical content contained in the model is useful in properly developing input data, in properly interpreting results and in appreciating the capabilities and limitations of the model.

The LCC model consists of three functional processes:

#### A. ADP Model Input Logic

Like any computer model, a problem to be analyzed by the LCC model must be presented in the form of input data

of particular types. Once the analyst has prepared data on the input forms, the data is converted to punched cards. Each type of data card is read in and the data is converted to a form needed for subsequent operations. The model routines that process input data also apply various logical tests to verify that the data is correct and complete within certain limits. If these tests or edit checks uncover discrepancies in the data, error messages are produced. For some errors operation of the model will stop, while for others processing will continue. The input routines also provide reports of the input data which are returned to the analyst along with results of the output reports. These input reports can be used to check that the data has been properly entered. They also serve as ready reference for interpreting the results of the model. Once all input data is read in and established in arrays, the logical process of the model automatically begins. All of the processing is done internally and does not require the attention or intervention of the analyst.

#### B. Cost Calculations

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In calculating Life Cycle Cost, the model considers the hierarchal structure of the cost elements that have been defined in section II. The cost of a cost element is the sum of the indentured cost elements below it. For example: total life cycle cost is calculated as the sum of the Research

& Development, Investment, and Operating & Support costs. This feature requires that only those cost elements that do not have lower indentured cost elements need be described by equations. The model calculates the cost of each equation by year. These costs are then adjusted as required by the time value of money theory.

Every cost element described by an equation also has identified with it a life cycle phase, cost category, funding type, and adjustment factor.

### C. <u>Reports</u>

The purpose of a life cycle methodology is to take the diverse bits of information describing a specific bid or set of circumstances and produce a unique value called the total life cycle cost. The comparison of the LCC values provides the System Project Manager with an important decision-making factor. The ADP program provides various reports at different depth of detail and types of information that are grouped into two basic categories:

1. Input Data Reports

These are the reports that present the input data and the built-in information in various formats to provide the basic information about the cost model, the cost parameter description and values, and the general remarks about the project. These reports are:

(a) Equations

This is the listing of the cost breakdown structure and associated equations (in reversed Polish notation). Identified with cost breakdown structure number, cost element description, and cost equations.

(b) Remarks

This is the listing of the remarks included for explanatory purposes.

(c) Dictionary

This is the alphabetical listing of the input parameter names, definitions and associated units of the cost factors.

(d) Variable values

This is the alphabetical listing of the names, definitions, units, and values of the cost factors.

(e) Cost adjustment factors

This is the listing of the annual inflated, inflated and discounted, and discounted cost adjustment factors.

2. Output Reports

These are the reports that present the calculated values of the life cycle cost in various formats. There are eight computer generated reports:

(a) The SUMMARY report presents the total life cycle cost cross-referenced by the major cost categories and the cost elements.

(b) The FUNDING VS. COST CATEGORY report presents the total life cycle cost cross-referenced by the major cost categories and funding types.

(c) The COST BREAKDOWN BY YEAR report presents the yearly breakdown of the basic cost elements.

(d) The COST BREAKDOWN TOTALS report presents the total life cycle cost of each basic cost element. The cost of each basic cost element is also expressed as a percentage of total LCC.

(e) The GENERAL FUNDING report presents the total life cycle cost cross-referenced by funding types.

(f) The ANNUAL COST BY FUNDING TYPE report presents the total life cycle cost by year by funding type.

(g) The ANNUAL COST BY COST CATEGORY report presents the total life cycle cost by year by cost category.

(h) The SENSITIVITY ANALYSIS report summarizes the effect of varying a single cost factor's value on the total life cycle cost.

V. NAVMAT EQUIPMENT LCC MODEL INPUT FORMATS

The operation of the Equipment Life Cycle Cost model requires that a variety of input data be prepared by the analyst to describe the equipment being analyzed. A Run Deck sequence of the computer cards is shown in figure V.1. A NAVMAT Equipment LCC model sample computer run is provided in Appendix D. There are five types of input formats required from the analyst. These are:

#### A. Analysis Identification

This form identifies the analysis and prints the title on the cover page and on the succeeding report pages. The maximum number of characters for the analysis identification is 100. The identification is to be contained in columns 1 through 80 of the first card and columns 1 through 20 of the second card (if required). All characters will appear as the analysis identification on each report page; if no information is given then "No analysis identification was provided" will be printed.

#### B. Control Options Card (CN card)

The control options card (CN card) has several switches to suppress printing of reports.

Input Data Reports are selectively printed or not printed in accordance with the following code:

0 or blank = No report printed 1 = Report printed

Output Reports are selectively printed or not printed in accordance with the following code:

> 0 or blank = No report printed 1 = Report printed in constant dollars 2 = Report printed in inflated dollars 4 = Report printed in inflated and discounted dollars

#### LCCFLEX RUN DECK SEQUENCE

//NWQPxxxx JOB (13440dii,C,U,N),'LCC-Analyst's name) // EXEC LCCFLEX,RUN=1,LINES=5000 //IDENT DD \* : Identification cards go in here //CS DD \* . . . . . . . . . . . . . . . : CS and EQ cards go in here : Referred to as CS FILE and used only for FLEX option : //NV DD \* : NV and DS cards go in here : Referred to as NV FILE and used only for FLEX option : //DATA DD \* . . . . . . . . . . : CN card : RM cards 1 & INPUT . NAMELIST input data cards go in here : & END . : : SA Sensitivity analysis cards go in here // // XXXX **Project identification** đ department code ii Analyst's initials

Figure V.1

If more than one type of printout is desired, simply add the integer of the individual reports and enter the resultant number. For example, the number 3 (1+2) will produce two reports, one in constant dollars and the other in inflated dollars. An entry of 7 (1+2+4) will produce three reports, one in constant dollars, one in inflated dollars, and one in inflated and discounted dollars.

The last switch on the form provides the user with an option of entering the adjustment factor for inflation in the form of either the inflation rate or the inflation factor. The switch is controlled as follows:

> 0 or blank = Inflation rates 1 = Inflation factors

If there is no CN card all of the reports will be printed.

The format of the CN card is as follows:

Column(s)	Description
1-2	Card type "CN"
3	Equation
<u>Å</u>	Remarks
5	Dictionary
6	Built-in variable values
7	User input variable values (Used only for
	LCCFLEX)
8	Cost adjustment factors
9	Summary
10	Funding by cost category
11	Cost breakdown by year
12	Cost breakdown totals
13	General funding
14	Annual cost by funding
15	Annual cost by cost categories
16	Sensitivity analysis
17-19	Not used

20 Inflation rate/factor input option 21-80 Not used

#### C. Remark Cards (RM cards)

The remark cards allow the user to describe or provide additional information for explanatory purposes. The remarks entered in this format are printed on a seperate output page. If no remark card is used, "No remarks" is printed. Each remark card should be coded with the characters RM on the first and the second column of the card. The user can include as many RM cards as needed.

#### D. & Input Card (for NAMELIST input)

The basic input data is entered on NAMELIST input cards. NAMELIST is a special input processing technique that allows a great deal of freedom and brevity in providing input data to a program.

Certain rules govern the use of the NAMELIST technique; these rules are described here. The first card for NAMELIST input must have "&" in column 2 followed by a NAMELIST name (for this program that name is input) and the name followed by a blank. Subsequent cards do not use this identification but column 1 must be blank. The end of NAMELIST data is signified by entering "&END" after the final model input data. Data is entered in the format "Variable name = Variable value." If the variable is defined as an integer (in this program only dimensioned

scalars are integers), the value must be an integer (not contain a decimal point). Embedded blanks in the name or value are illegal, but blanks may appear before or after each (CAUTION: Blanks after a value with no decimal point will be interpreted as zeros). A comma must be used to delimit and separate data entries. Input to arrays may be done in one of several ways. Some of these ways are illustrated in the following example.

Assume an array "A" dimensioned by three, into which it is desired to enter the value 8, 8, 5. This can be done, under NAMELIST input by:

A(1) = 8., A(2) = 8., A(3) = 5.,

OR A = 8.,8.,5., OR A = 2\*8.,5., OR

A(1)=8., A(3)=5.,

In the last form, the program will take the first value as default for the second.

The Government Furnished Equipment Life Cycle Cost model contains 104 cost factors which are written in the NAMELIST format. There are three types of cost factors:

1. Scalars

These are the single value cost factors. There are 43 scalars in the LCC Equipment model. All scalars have a range varying from 0 to 10 except scalars "BY" and "IYI", which are restricted to vary from 1 to 30, and scalar 'TERM' 9 9 which varies from -10 to 10 . Scalar names are listed in alphabetical order as follows: BY CE CIPE CM CP CSD CSI

cso	CTI	CTM	СТО	CTP	CTPE	CU
FDRT	FILS	FIRT	FII	FPST	IYI	NP
NSNP	NSNS	OHL	онм	OHT	TO	PO
PSOS	RAM	RAP	RDM	RIE	RIM	RO
RPL	RPM	RSD	RSL	RSR	STEM	STES
TERM						

2. Dimensioning Scalars

These are the single value cost factors governing the dimensions of the arrays. There are three dimensioning scalars in the NAVMAT Equipment LCC Model. Dimensioning scalars and their respective minimum and maximum range values are listed as follows:

Name	Min. range	Max. range
NK	<u> </u>	500
NM	1	10
Y	1	30

3. Arrays

These are the subscripted multiple entry cost factors. Dimensions of these arrays are controlled by dimensioning scalars. All arrays have a range varying from 0 to 9 10 except arrays "R", "FR" and "NPM" are restricted to a minimum of 0.01 to avoid division by zero during calculations. There are 58 arrays in the Equipment LCC model. The listing of the arrays by dimension type are as follows:

(a) The 44 arrays subscripted by "I" and dimensioned by "Y" (which has a range from 1 to 30) are as follows:

AD	ADC	ADG	ATU	CS	DCD	DCE
DCH	DCPM	DCS	DCST	DCTE	DGPM	DGTA
DGTE	DGTT	DR	FMS	FOS	FR	IRCON
IROM	IRPROC	IRRD	ISSD	ISSI	LO	LM
LP	MSSD	MSSI	N	NC	NN	NOH
NPO	PMG	PSS	PTE	PTI	PTM	PTO
PTP	STE			_	_	

(b) The ll arrays subscripted by "K" and dimensioned by "NK" (which has a range from 1 to 500) are as follows: CST DC DSC LSD LSI LSO QTY R RSS RW W

(c) The 3 arrays subscripted by "N" and dimensioned by "NM" (which has a range from 1 to 10) are as follows:

#### LPM MPM NPM

An alphabetically sequenced Life Cycle Cost Directory with names and descriptions of the Cost Factors is provided in table V.1.

Table V.2 presents the Life Cycle Cost Factor-Equation Directory which provides a cross reference of the Cost Factors and the Equations in which they are used.

# LIFE CYCLE COST FACTOR DIRECTORY

NAME	DESCRIPTION
AD(I)	Acquisition cost of data during investment period
	(\$/yr)
ADC(I)	Government payments to the contractor for tech-
	nical and Managerial work performed during valida-
	tion phase (\$/year)
ADG(I)	Government expenditures for technical and managerial
	work performed during validation phase (\$/yr)
ATU(I)	Acquisition, transportation, and installation costs
	of training aids and devices during initial train-
	ing (\$/yr)
BY	Base year during/from which all cost adjustments
	are made (Dimensionless)
CE	Energy consumption cost incurred during the opera-
	tion of the prime equipment (\$/hr/equip)
CIPE	Installation cost of the prime equipment (\$/equip)
СМ	Cost of materials consumed during the operation
	of the prime equipment
CP	Average cost per page of set-up, reproduction and
	distribution of technical manuals (\$/page/copy)
CS(I)	Software maintenance cost during prime equipment
	operation (\$/yr)
CSD	Area cost for depot level maintenance (\$/sg.ft/yr)
CSI	Area cost for O/I level maintenance space
	(\$/sq.ft./yr)

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Table V.1

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NAME	DESCRIPTION
CSO	Area cost for operational space (\$/sq.ft./yr)
CST(K)	Unit cost of the Kth spare/repair item (\$/item)
CTI	Average instructor training cost for personnel
	pay and allowance travel and course fees (\$/student)
CTM	Average O/I maintenance personnel training cost
	for pay and allowance, travel and course fees
	(\$/student)
СТО	Average operating personnel training costs for pay
	and allowance, travel and course fees (\$/student)
CTP	Average depot maintenance personnel training costs
	for pay and allowance, travel and course fees
	(\$/student)
CTPE	Transportation cost of prime equipment from con-
	tractors facility to installation site (\$/equip)
CU	Unit price of one of the contractors equipment
	(\$/equip)
DC(K)	Duty cycle in the Kth spare/repair item (Ratio)
DCD(I)	Payment by the government to the contractor for all
	the data acquired during full scale development
	(\$/yr)
DCE(I)	Payment by the government to the contractor for
	the engineering efforts during full scale develop-
	ment (\$/yr)
	Table V.1 (continued)
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NAME	DESCRIPTION
DCH(I)	Payment by the government to the contractor hard-
	ware development efforts during full scale develop-
	ment (\$/yr)
DCPM(I)	Payment by the government to the contractor manage-
	ment efforts during full scale development (\$/yr)
DCS(I)	Payment by the government to the contractor soft-
	ware development effort during full scale develop-
	ment (\$/yr)
DCST(I)	Payment by the government to the contractor S&TE
	development effort during full scale development
	(\$/yr)
DCTE(I)	Payment by the government to the contractor test
	and evaluation efforts during full scale develop-
	ment (\$/yr)
DGPM(I)	Government project management costs incurred during
	full scale development (\$/yr)
DGTA(I)	Government costs for test site activation/deactiva-
	tion during full scale development T&E program
	(\$/yr)
DGTE(I)	Government personnel costs incurred during full
	scale development T&E program for testing and evalua-
	tion (\$/yr)
DGTT(I)	Government cost to train students during full scale
	development test and evaluation program (\$/yr)
DR(I)	Annual discount rate for future costs (ratio)
	Table V.1 (continued)

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NAME	DESCRIPTION
DSC(K)	Discard rate of the Kth spare/repair item (ratio)
FDRT	Required stockage time for depot level repair-
	able items at O/I and depot level (days)
FILS	Required stockage time for replenishment spares at
	O/I level (days)
FIRT	Repair cycle time for repairable items at O/I level
	(days)
FM	Repair material rate (ratio)
FMS(I)	Maintenance site construction/preparation costs
	during investment period (\$/yr)
FOS(I)	Operational site construction/preparation costs
	during investment period (\$/yr)
FPST	Procurement lead and safety level stockage time for
	initial spare and repair parts (days)
FR(I)	Reliability improvement or degridation factor
	(dimensionless)
IRCON(I)	Annual inflation rate for future costs for con-
	struction type of funding (ratio)
IROM(I)	Annual inflation rate for future costs of O&M type
	of funding (ratio)
IRPROC(I)	Annual inflation rate for future costs of procure-
	ment type funding (ratio)
IRRD(I)	Annual inflation rate for future costs of R&D type
	of funding (ratio)

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Table V.1 (continued)

NAME	DESCRIPTION
ISSD(I)	Storage space required for the depot inventory
	(sq.ft./yr)
ISSI(I)	Storage space required for the O/I inventory
	(sq.ft./yr)
IYI	Year during which initial cost occur (dimensionless)
LO(I)	Desired manning level for operating personnel
	(personnel/yr)
LM(I)	Desired manning level for O/I level maintenance
	personnel (personnel/yr)
LP(I)	Desired manning level for depot level maintenance
	personnel (personnel/yr)
LPM(N)	Preventive maintenance labor time for Nth main-
	tenance action (hr/action)
LSD(K)	Depot maintenance labor time to repair the Kth
	item (hr/item)
LSI(K)	O/I level maintenance labor time to repair the Kth
	item (hr/item)
LSO(K)	O/I level maintenance labor time to remove and
	replace the Kth item (hr/item)
MPM(N)	Material cost for Nth type of preventive main-
	tenance action (\$/action)
MSSD(I)	Shop space required for depot level maintenance
	(sq.ft./yr)
MSSI(I)	Shop space required for O/I level maintenance
	(sq. ft./yr) (

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Table V.1 (continued)

NAME	DESCRIPTION
N(I)	Number of equipments in the Navy's inventory system
	(equip/yr)
NC(I)	Number of copies of technical data to be distributed
	and inventoried (copies/yr)
NK	Total number of spare/repair items in the prime
	equipment (dimensionless)
NM	Total number of preventive maintenance types of
	the prime equipment (dimensionless)
NN(I)	Prime equipment annual acceptance schedule (equip/
	Yr)
NOH(I)	Prime equipment overhaul schedule (equip/yr)
NP	Number of pages per technical manual maintained
	by Navy (pages/copy)
NPM(N)	Time between inspections of the preventive main-
	tenance actions (hr/action)
NPO(I)	Prime equipment phase out schedule (equip/yr)
NSNP	Total number of new National Stock Numbers to be
	issued on the prime equipment (NSN)
NSNS	Total number of new National Stock Numbers to be
	issued on the peculiar S&TE equipments (NSN)
OHL	Prime equipment overhaul maintenance labor time
	(hr/eguip)
OHM	Prime equipment overhaul maintenance material cost
	(\$/equip)

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Table V.1 (continued)

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NAME	DESCRIPTION
OHT	Prime equipment overhaul maintenance material
	shipping rate (\$/equip)
TO	Prime equipment annual operating time (hrs/equip/yr)
PMG(I)	Government project management costs incurred during
	investment period (\$/yr)
PO	Number of personnel required to operate a prime
	equipment (personnel/equip)
PSOS	Floor space required for the operation of a prime
	equipment (sq.ft./equip)
PSS(I)	Production support & services cost incurred during
	the investment period (\$/yr)
PTE(I)	Production test & evaluation costs incurred during
	the investment period (\$/yr)
PTI(I)	Number of instructors to receive initial training
	(student/yr)
PTM(I)	Number of O/I Maintenance personnel to receive
	initial training (student/yr)
PTO(I)	Number of operating personnel to receive initial
	training (student/yr)
PTP(I)	Number of depot maintenance personnel to receive
	initial training (student/yr)
QTY(K)	Number of quantities of a spare/repair item
	(guantity/item)
R(K)	Mean time between failures of the spare/repair
	item (hr/item)
	Table V.1 (continued)

NAME	DESCRIPTION
RAM	<b>Operator</b> and O/I level maintenance personnel at-
	trition rate (ratio)
RAP	Depot level maintenance personnel attrition rate
	(ratio)
RDM	Technical data management cost for file maintenance
	(\$/page/yr)
RIE	Average National Stock Number (NSN) entry cost
	into the supply system (\$/NSN)
RIM	Supply support management item retention and field
	administration cost (\$/NSN)
RO	Prime equipment operator hourly pay rate (\$/hr/
	operator >
RPL	Packaging labor cost (\$/lb)
RPM	Packaging material cost (\$/1b)
RSD	Depot Maintenance personnel pay rate to repair
	items (\$/hr/man)
RSL	O/I maintenance personnel pay rate to remove, re-
	<pre>place or repair failed items (\$/hr/man)</pre>
RSR	Average shipping cost (\$/lb)
RSS(K)	Fraction of failures repaired at the intermediate
	maintenance level for the Kth item (ratio)
RW ( K )	Ratio of the shipping weight to the unpacked weight
	of the Kth item (ratio)
STE(I)	Support & test equipment acquisition cost (\$/yr)

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Table V.1 (continued)

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NAME	DESCRIPTION			
STEM	Support & test equipment initial support rate,			
	percent of S&TE acquisition cost (ratio)			
STES	Support & test equipment recurring support cost			
	per prime equipment (\$/equip)			
TERM	Termination cost and/or value of the prime equip-			
	ment (\$/equip)			
W(K)	Unpacked weight of the Kth item (lb/item)			
Y	Number of years covered by the life cycle analy-			
	sis (dimensionless)			
LIFE CYCLE	COST	FACTOR-EQUATION	REFERENCE	DIRECTORY
------------	------	-----------------	-----------	-----------
------------	------	-----------------	-----------	-----------

NAME	CBS NUMBER	NAME	CBS NUMBER
AD(I)	234100	CU	221000
ADC(I)	111000	DC(K)	232110
ADG(I)	112000		321110
ATU(I)	235500		321230
BY	ALL		321310
CE	313000		327100
CIPE	225000	DCD(I)	121600
СМ	314000	DCE(I)	121200
CP	234200	DCH(I)	121300
CS(I)	315000	DCPM(I)	121100
CSD	325120	DCS(I)	121400
CST	225110	DCST(I)	121700
C91	325210	DCTE(I)	121500
CSO	312000	DGPM(I)	122100
CST(K)	232110	DGTA(I)	122220
	327100	DGTE(I)	122230
CTI	235400	DGTT(I)	122210
CTM	235200	DR(I)	ALL
СТО	235100 328100	DSC(K)	232110 321120 321130
CTP	235300 328300		321200 321310 321320
CTPE	224000		327100

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NAME	CBS NUMBER	NAME	CBS NUMBER
FDTR	232110	IROM(I)	321310
FILS	232110	(cont.)	321320
FIRT	232110		322100 322200
FM	321200		323100 323200
FMS(I)	233200		323300 324000
FOS(I)	233100		326000 327100
FPST	232110		327200 328100
PD(T)	222110		328200
FR(I)	321110		328300
	321120		330000
	321130	IRPROC(I)	221000
	321200		222000
	321310		223000
	321320		224000
	321330		225000
	327100		231000
	1 2 2 2 2 2		232110
IRCON(I)	122220		232120
	233200		234100
	233200		234200
	325110		235500
	325120	TPPD(T)	111000
	325210	IKAD(I)	112000
	325220		121100
		1	121200
	-		121300
IROM(I)	122210		121400
	232200		121500
	235100		121600
	235200		121700
	235300		122100
	235400		122230
	311000		210000
	313000		
	314000	ISSD(I)	325220
	315000	TOOT(T)	225210
	321120	1991(1)	372510
	321120	TVT	222200
	321200	***	326000
			327200

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Table V.2 (cont.)

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NAME	CBS NUMBER	NAME	CBS NUMBER
LO(I)	328100	NM	322100
LM(I)	328200		322200
LP(I)	328300	NN(I)	221000 224000
LPM(N)	322100		225000 232110
LSD(K)	321130	NOH(I)	323100
LSI(K)	321120		323200 323300
LSO(K)	321110	NP	234200
MPM(N)	322200		326000
MSSD(I)	325120	NPM(N)	322100 322200
MSSI(I)	325110	NPO(I)	330000
N(I)	311000 312000	NSPN	232200 327200
	313000 314000 321110	NSNS	232200 327200
	321120 321130	OHL	323100
	321200	ОНМ	323200
	321320	OHT	323300
	322200 322200 324000 327100	OT	232110 311000 313000
NC(I)	234200		321110
NK	232110 32110 321120 321130 321200 321310 321320 321320 321330		321120 321130 321200 321310 321320 321330 322100 322200 327100
	327100		

# Table V.2 (cont.)

NAME	CBS NUMBER	NAME	CBS NUMBER
PMG(I)	210000	RIM	327200
PO	311000	RO	311000
psos	312000	RPL	321310
PSS(I)	222000	RPM	321320
PTE(I)	223000	RSD	3.211.30
PTI(I)	235400		323100
PTM(1)	235200	RSL	321110 321120 322100
PTO(I)	235100	DCD	322100
PTP(I)	235300	RSR	321330
QTY ( K )	232110 321110 321120 321130 321200 321310 321320 321330 32130 32130	RSS(K) RW(K) STE(I)	232110 321120 321130 321310 321320 321330 321330 221000
R(K)	232110 321110 321120 321130	STEM Stes	232120 232120 324000
	321200 321310	TERM	330000
	321320 321330 327100	Ŵ(K)	321310 321320
RAM	328100 328200	Y	321330 ALL
RAP	328300		
RDM	326000		
RIE	232200		

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Table V.2 (cont.)

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## E. Sensitivity Analysis Card

Variables to be sensitized are noted on the sensitivity analysis card. These cards are identified by punching SA in columns 1 and 2.

The mnemonic of the variable to be sensitized is entered in columns 10 through 17. The lower and upper values of the range over which the variable is to be sensitized are entered in columns 20 through 29 and 30 through 39 respectively.

Up to ten scalar variables and up to ten array variables may be sensitized in a given program execution.

The sensitivity analysis for a scalar begins by setting the variable to the lower range value, performing the model calculations, and printing a line of output. The process is repeated ten times successively adding 1/10 of the range to the variable's value.

The sensitivity analysis for an array variable begins by multiplying all original elements of the array by a multiplier initially set equal to the lower range value, performing the model calculations, and printing a line of output. The process is repeated ten times successively adding 1/10 of the range to the multiplier. Array elements are subsequently printed giving the original and eleven modified values of each element.

If more than ten scalars or ten arrays are used

for sensitivity analysis, the excess will be ignored and a warning message issued for each.

## VI. FLEX TECHNIQUE IN LCC METHODOLOGY

FLEX option of the NAVMAT Equipment LCC Model provides the analyst the flexibility to modify the standard LCC model to his specific project needs. It is realized that within the limits of the standard LCC model it is not feasible to cover a wide range of possible unique situations of every project. With this in mind, the FLEX technique is introduced. Using this technique, the analyst can modify the standard LCC model to the extent of even redefining the entire cost structure. However, this is neither intended nor recommended. The user should stay within the same framework of the standard cost model and add or delete cost elements, define and use new variables, or make use of other miscellaneous options provided by the flex technique to emphasize certain cost areas or make some changes in the cost calculation methodology that is more fitting to his specific project. Run Deck sequence of the computer program is shown in Figure V,1. A flex technique sample computer run is provided in Appendix E. The basic optional changes of the flex technique are as follows:

A. Revision, Addition, Or Deletion Of Cost Elements

Revision, addition, or deletion of a cost element is done by providing a "CS" card in the "CS" file (refer

to figure V.1). The format of a "CS" card is as follows:

Column(s)	Description
1-2	Card type "CS"
3-8	Cost Breakdown Structure number
9-10	Not used
11-50	Cost element description
51-54	Not used
55-56	Cost category
57-59	Not used
60	Funding type
61-64	Not used
65	Inflation factor type
66-69	Not used
70	Equation code
71-79	Not used
80	Deletion code

Code numbers of cost categories, funding types, and inflation factor types are provided in section II.

1. Revision

If the analyst wants to maintain the cost element but make changes in the description, cost category, funding type, or inflation factor type, he must prepare a "CS" card and identify the cost breakdown structure number and modify only the changes to be implemented.

2. Addition

If the user is introducing a new cost element, he should prepare a "CS" card, and by using the standard LCC model as a reference, define a cost breakdown structure number. If the cost element is not the lowest indenture level, a cost breakdown structure number and description of the cost element is all that is needed. However, if the cost element

is at the lowest indenture level, then the analyst must provide the information associated with the cost category, funding type, inflation factor type and also indicate that an equation card will follow the "CS" card (Lowest indenture level cost elements <u>must have equations</u>). The computer program is dimensioned to accept 100 new cost elements.

3. Deletion

If the analyst wants to delete a cost element, he prepares a CS card, defines the cost breakdown structure number and punches 1 in the 80th column. <u>Caution</u>: This will delete the cost element specified and also all the lower indenture level cost elements below it. The analyst may use the deleted cost structure numbers for new cost element definitions. <u>Note</u>: If a standard LCC model cost factor is deleted thru deletion of cost elements not being used again, it may be excluded from the NAMELIST data.

### B. Equations For Cost Elements

Equations are identified with an "EQ" card provided in the same file with "CS" cards. Equations may be provided to modify the existing equations or for new cost elements. In either case, an "EQ" card must follow a "CS" card with the same cost breakdown structure number. Equation card format is as follows:

<u>Column(s)</u>	Description
1-2	Card type "EQ"
3-8	Cost breakdown structure number
9-10	Not used
11-80	Cost equation

Equations may be continued to another card by breaking off at a comma or semicolon and resuming in the next card. A continuation card must be an "EQ" card and must be identified by the same cost breakdown structure number.

Equations are written in Reversed Polish notation in which each operation ( + , - , \* , / , \*\* ) acts on the two quantities immediately preceding it, working from left to right (many electronic calculators use this technique). Thus A,B,C,+,\* represents (B+C)\*A. Equation elements are separated by commas. Summation is indicated by the semicolon. The sequence is "subscript, minimum value, maximum value". The subscript "I" always denotes the year and is treated differently. Those years outside the range of "I" are assigned a cost of zero while those within the range are assigned the cost obtained by fixing the value of "I" appropriately and summing over the other subscripts. Samples of equations written in Reversed Polish Notation are:

1.

A(I);I,1,Y

A(I)

I=1

Same as,

2.

A(I),B,+,C(J),\*,D,E,\*\*,-,F,/;I,l,Y,J,l,N

Same as,

Y N **\$ \$** [[A(I) + B] \* C(J)] - D] / F I=1 J=1

C. New Variables

In new equations, the analyst has the option to use the built-in cost factors defined for the standard cost model or define, describe, and use values for new variables thru the "NV" file (refer to Figure V.1). The computer program is dimensioned to accept 50 new scalars and 50 new arrays. The analyst may use internally defined dimensioning scalars for the new arrays. However, if the analyst defines the dimensioning scalars, they must be read in before any of the arrays dimensioned by it.

1. Variable Description Card

This card is optionally used to describe the user input variables. If one card is not enough, the description of the variable is continued on the next card. A maximum of two cards can be used for each variable. The format of both cards are identical. If two cards are used, they must be consecutive in the "NV" file. "DS" cards may appear anywhere in the file as long as they do not seperate an "NV" card from its continuation. The format of a "DS" card is as follows:

<u>Column(s)</u>	<u>Description</u>
1-2	Card type "DS"
3-4	Not used
5-15	Variable name
16-72	Variable description
73-80	Not used

2. Variable name and value input card ("NV" Card)

Whenever a new variable is used, it must be defined and its value must be used by an "NV" card. An "NV" card may appear anywhere in the "NV" file as long as it does not separate another "NV" card from its continuation. An "NV" card may be continued to another "NV" card by breaking off at a comma (comma signifies the continuation of the card) and resuming on the next "NV" card identified by the same variable name. Variable values are used the same way as in the NAMELIST data input procedures as described in Section V. The format of the "NV" file is as follow:

Column(s)	Description
1-2	Card type "NV"
3-4	Not used
5-15	Variable name
16-80	Variable value

### D. Other FLEX Options

1. Cost Categories

The standard LCC cost model provides 10 defaulted cost categories. However, the analyst may vary the number of cost categories from one to twenty, and define the cost

category names at his option. These variables must be used thru the NAMELIST data as shown below:

NOCAT- The number of cost categories (Integer) e.g.,

NOCAT=11,

CAT1,CAT2,....CAT20- The variables that define the cost category names. The first ten default to the names in the standard LCC cost categories. These variables must be entered in quotes in blocks of maximum 8 characters:

CAT8='FACILITI','ES',

CAT11='MANAGEME','NT',

Cost Elements (Cost elements defined in the summary report)

The standard LCC model defaults to three cost elements in the summary report. However, the analyst may vary this by changing the LCC model cost breakdown structure definition. The first number of the cost breakdown structure number determines the number of cost elements in the summary report. Using the FLEX technique the analyst may vary this number from one to six. The reporting format of the computer program automatically adjusts to the changes. The analyst may also change the title of the cost elements in the summary report by using the following variables which must be input thru NAMELIST data:

ELT1, ELT2,.... ELT6- Cost element titles. The first three default to DEVELOPMENT, INVESTMENT, and O&S. These

variables must be entered in guotes with a maximum of 8 characters:

ELT4='OPERATIO','NS',

3. Funding type (Titles for the Funding reports) The number of funding types are fixed to six. However, the analyst may change the title of the funding type by providing the following variables thru NAMELIST data:

FUND1, FUND2,.....FUND6- Funding titles default to R&D, PROCUREMENT, CONSTRUCTION, O&M, MILITARY, OTHERS. They must be entered in quotes with a maximum of eight characters (e.g. FUND6='SUNK COS', 'T',).

4. Years

Life cycle cost years are automatically generated in the program from 1 to total number of years 'Y'. However, the analyst may provide alpha-numeric presentation of the years by providing values for the variable 'YEARS' thru NAMELIST data:

Years are read in quotes in block of four characters (e.g. YEARS='BY94','FY95','1996',)

# APPENDIX A

# NAVMAT EQUIPMENT LCC MODEL EQUATIONS

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TOTAL LIFE CYCLE COST is equal to the sum of the following basic equations

### RESEARCH AND DEVELOPMENT COSTS

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CBS 111000 Contractor payments paid by the government for the equipment development effort during the R&D Validation Phase are Y S ADC(I) I=1 Where; Designator for a specific project year Ι Y Number of years covered by the life cycle cost analysis ADC(I) Contractor payments (\$/yr) CBS 112000 Government expenditures for the equipment development effort during the R&D Validation Phase are Y **§** ADG(I) I=1 Where ADG(I) Government expenditures (\$/yr) CBS 121100 Contractor Management costs during full scale development effort are Y S DCPM(I) I=1 Where DCPM(I) Contractor Management costs (\$/yr)

CBS 121200 Contractor Engineering costs during full scale development effort is

Y S DCE(I) I=1

Where

DCE(I) Contractor Engineering costs (\$/yr)

CBS 121300 Contractor prototype hardware development costs during full scale development effort are

Y S DCH(1) I=1

#### Where

DCH(I) Contractor prototype hardware costs (\$/yr)

CBS 121400 Contractor software development costs during full scale development effort are

> Y S DCS(I) I=1

Where

DCS(I) Contractor Software development costs (\$/yr)

```
CBS 121500
Contractor development Test & Evaluation costs during full scale
development effort is
     Y
        DCTE(I)
     S
    1=1
Where
             Contractor development Test & Evaluation costs ($/yr)
   DCTE(I)
CBS 121600
Contractor Documentation costs during full scale development
effort are
     Y
        DCD(I)
     S
    I=1
Where
            Contractor Documentation costs
                                             ($/yr)
   DCD(I)
CBS 121700
Contractor Support & Test equipment development costs during full
scale development effort are
     Y
     § DCST(I)
    I=1
Where
 DCST(I)
             Contractor S&TE development costs ($/yr)
```

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CBS 122100 Government Program Management costs during full scale development effort are Y DGPM(I) S I=1 Where DGPM(I) Program Management costs (\$/yr) CBS 122210 Training costs incurred by students during Test & Evaluation maintenance program are Y § DGTT(I) I=1Where DGTT(I) Training costs (\$/yr) CBS 122220 Test Site activation/deactivation costs incurred by Government during full scale development Test & Evaluation program are Y **§** DGTA(I) I=1 Where Test Site activation/deactivation costs (\$/yr) DGTA(I) CBS 122230 Test & Evaluation costs incurred by Government during full scale development Test & Evaluation Program are Y S DGTE(I) I=1 Where Test & Evaluation personnel costs (\$/yr) DGTE(I)

INVESTMENT COSTS CBS 210000 Government Program Management cost is Y S PMG(I) I=1 Where PMG(I) Program Management costs (\$/yr) CBS 221000 Production hardware costs of the Prime Equipment are Y \$ NN(I) \* CU I=1Where NN(I) Prime equipment annual acceptance schedule (equip./yr) CU Prime equipment procurement price (\$/equip.) CBS 222000 Production Support & Services costs of the prime equipment are Y S PSS(I) I=1 13 Where PSS(I) Production Support & Services costs (\$/yr) CBS 223000 Production Test & Evaluation costs of the prime equipment are Y PTE(I) S I=1Where. PTE(I) Production Test & Evaluation costs (\$/yr)

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CBS 224000 Transportation to installation site expenditures to cover the cost of moving the prime equipment from the contractors facility to the point of installation are

.....

Y S NN(I) \* CTPE I=1

#### Where

NN(I) Prime equipment annual acceptance schedule (equip/yr)
CTPE Transportation costs (\$/equip)

CBS 225000 Installation costs for the Prime Equipment are

Y § NN(I) \* CIPE I=1

#### Where

NN(I) Prime equipment annual acceptance schedule (equip/yr)
CIPE Installation costs (\$/equip)

CBS 231000 Acquisition costs of Support & Test equipment are

Y \$ STE(I) I=1

Where

STE(I) Support & Test equipment acquisition costs (\$/yr)

CBS 232110 Acquisition	cost of Primary equipment Initial Spares is
Y S NN(I) I=1	NK * \$ OT*DC(K)*QTY(K)*CST(K)*[DSC(K)*(FPST+FILS) + K=1 (1-DSC(K))*(BSS(K)*FIRT+[1-BSS(K)]*FDBT]) /
	[R(K)*FR(I)*365]
Where NN(I) OT DC(K) QTY(K) CST(K) DSC(K) FPST FILS RSS(K) FIRT FDRT R(K) FR(I) K NK	Prime equipment annual acceptance schedule (equip/yr) Prime equipment annual operating time (hrs/equip/year) Duty cycle of Kth item (ratio) Quantity of Kth item (quantity/item) Unit cost of the Kth item (\$/item) Discard rate of Kth item (ratio) Procurement lead & safety stockage time for spares (days Required stockage time at O/I level for spares (days) Repair level ratio (ratio) Required stockage time for O/I repairable items (days) Required stockage time for depot repairable items (days) Mean time between failures for Kth item (hrs/failure) Reliability improvement/degradation factor (factor) Designator for a specific spare/repair item The number of spare/repair items in an equipment
CBS 232120	
Acquisition is	cost of Support & Test Equipment Initial Spares
Y <b>S</b> STE I=1	(I) * STEM
Where STE(I) STEN	Support & Test equipment acquisition costs (\$/yr) Material support rate . Percent of S&TE cost (ratio)

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CBS 232200
Introduction of new NSN's (National Stock Number) into the supply
system costs are
    IYI
       ( NSNP + NSNS ) * RIE
     S
   I=IYI
Where
          Number of new NSN's of Primary Equipment (NSN)
   NSNP
          Number of new NSN's of Support & Test Equipment
   NSNS
                                                            (NSN)
          Average NSN entry into the supply system cost ($/NSN)
   RIE
CBS 233100
Facility costs incurred by the Government to construct/prepare
the operational sites are
     Y
     S
        FOS(I)
    I=1
Where
   FOS(I)
            Operational site const/prep. costs ($/yr)
CBS 233200
Facility costs incurred by the government to construct/prepare
maintenance sites are
     Y
     S
       FMS(I)
    I=1
Where
   FMS(I)
            Maintenance site constr/prep. costs ($/yr)
CBS 234100
Acquisition costs of Technical Data not included in the
development costs are
    Y
     § AD(I)
    I=1
Where
  AD(I)
           Technical Data Acquisition costs
                                             ($/yr)
```

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CBS 234200 Reproduction and Distribution costs of Technical Data are		
Y \$ NC(I) * NP * CP I=1		
Where NC(I) Number of copies (copies/yr) NP Number of pages in a set of technical data (pages) CP Reproduction and distribution costs (\$/page/copy)		
CBS 235100 Operating personnel pay, allowance, travel costs, and course fees incurred during the initial operator training course are		
Y § PTO(I) * CTO I=1		
Where PTO(I) Number of students (students/yr) CTO Operating personnel training cost (\$/student)		
CBS 235200 O/I level maintenance personnel pay, allowance,travel costs, and course fees incurred during the initial training course are		
Y \$ PTM(I) * CTM I=1		
Where PTM(I) Number of students (students/yr) CTM O/I Maintenance personnel training cost (\$/student)		

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CBS 235300
Depot level maintenance personnel pay, allowance, travel costs,
and course fees incurred during the initial training course
are
     Y
    § PTP(I) * CTP
    I=1
Where
  PTP(I)
            Number of students
                                  (students/yr)
  CTP
            Depot Maintenance personnel training cost ($/student)
CBS 235400
Instructor training personnel pay, allowance, travel costs, and
course fees incurred during the initial training course are
     Y
    S PTI(I) * CTI
    I=1
Where
  PTI(I)
            Number of students
                                 (students/yr)
  CTI
            Instructor training cost ($/student)
CBS 235500
Acquisition and installation costs of training aids of the
initial training program are
     Y
     $ ATU(I)
    I=1
```

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Where
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ATU(I) Acquisition and installation costs of training aids (\$)

**OPERATING AND SUPPORT COST** 

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CBS311000 Personnel pay and allowance costs incurred by the equipment operators are Y **S** N(I) \* PO \* RO \* OT I=1 Where N(I) Prime equipment inventory (equip/yr) PO Number of operators per prime equipment (operator/equip) RO Operator hourly pay rate (\$/hr/operator) Prime Equipment operating time (hrs/equip/yr) OT CBS 312000 Facility space costs for providing necessary operational area for the equipment are Y S N(I) \* PSOS \* CSO I=1 Where N(I) Prime equipment inventory (equip/yr) PSOS Operational area per prime equipment (sq.ft./equip) CSO Operational area space cost (\$/sq.ft./yr) CBS 313000 Energy cost incurred during the equipment operation is Y \$ N(I) \* CE \* OT I=1Where N(I) Prime equipment inventory (equip/yr) CE Energy cost (\$/hrs/equip) OT Prime Equipment operating time (hrs/equip/yr)

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CBS 314000
Material costs incurred during the equipment operation are
     Y
     S
       N(I) * CM * OT
    I=1
Where
    N(I)
           Prime equipment inventory (equip/yr)
    CM
           Material cost ($/hr/equip)
    OT
           Prime equipment operating time (hrs/equip/yr)
CBS 315000
Software maintenance costs incurred during the equipment operation
are
     Y
     § CS(I)
    I=1
Where
    CS(I) Prime equipment software maintenance costs ($/yr)
CBS 321110
O/I level Corrective Maintenance Labor costs for the detection,
isolation, removal and replacement of item failures in the prime
equipment are
       Y
                 NK
      $ N(I) * $ OT*DC(K)*QTY(K)*LSO(K)*RSL / [R(K)*FR(I)]
      I=1
                K=1
Where
    N(I)
            Prime equipment inventory (equip/yr)
            Prime equipment operating time (hrs/equip/yr)
    OT
    DC(K)
            Duty cycle of Kth item (ratio)
    QTY(K)
            Quantity of Kth item
                                   (quantity/item)
    LSO(K)
            O/I maintenance time to remove, replace Kth item (hrs/item)
    RSL
            O/I maintenance personnel pay rate ($/hr)
    R(K)
            Mean time between failures for Kth item (hrs/failure)
    FR(I)
            Reliability improvement/degradation factor (factor)
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CBS 321120 O/I level Corrective Maintenance Labor costs incurred during the repair of a failed item are Y NK **S** N(I) **\* S** OT\*DC(K)\*QTY(K)\*LSI(K)\*RSL\*RSS(K)[1-DSC(K)] / I=1 K=1[R(K) \* FR(I)]Where N(I) Prime equipment inventory (equip/yr) ОТ Prime equipment operating time (hrs/equip/yr) DC(K) Duty cycle of Kth item (ratio) Quantity of Kth item OTY(K) (quantity/item) O/I maintenance time to repair the Kth item (hrs/item) LSI(K) RSL O/I maintenance personnel pay rate (\$/hr) RSS(K) Repair level ratio (ratio) DSC(K) Discard rate of Kth item (ratio) R(K) Mean time between failures of Kth item (hrs/failure) FR(I) Reliability improvement/degradation factor (factor) CBS 321130 Depot level Corrective Maintenance costs incurred during the repair of a failed item are Y NK **§** N(I) **\* §** OT\*DC(K)\*QTY(K)\*LSD(K)\*RSD\*[1-RSS(K)]\* I=1 K=1 [1-DSC(K)] / [R(K)\*FR(I)]Where N(I) Prime equipment inventory (equip/yr) Prime equipment operating time (hrs/equip/yr) OT DC(K) Duty cycle of Kth item (ratio) QTY(K) Quantity of Kth item (quantity/item) Depot maintenance time to repair Kth item (hrs/item) LSD(K) RSD Depot maintenance personnel pay rate (\$/hr) RSS(K) Repair level ratio (ratio) Discard rate of Kth item (ratio) DSC(K) R(K) Mean time between failures of Kth item (hrs/failure) FR(I) Reliability improvement/degradation factor (factor)

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CBS 321200	
Corrective	Maintenance Repair Material costs are
Y S N(I)* I=1 I	NK \$ OT*DC(K)*QTY(K)*CST(K)*FM*[1-DSC(K)] / [R(K)*FR(I)] K=1
Where N(I) OT DC(K) QTY(K) CST(K) FM DSC(K) R(K) FR(I)	Prime equipment inventory (equip/yr) Prime equipment operating time (hrs/equip/yr) Duty cycle of Kth item (ratio) Quantity of Kth item (quantity/item) Unit cost of the Kth item (\$/item) Repair material rate. Percent of item cost (ratio) Discard rate of Kth item (ratio) Mean time between failures of Kth item (hrs/failure) Reliability improvement/degradation factor (factor)
CBS 321310 Packaging 1 failed iten tenance fac	Labor costs incurred during the process of shipping ms between the intermediate and depot level main- cilities are
Y S N() I=1	NK I)* <b>\$</b> OT*DC(K)*QTY(K)*2*W(K)*RPL*[1-RSS(K)] * K=1 [1-DSC(K)] / [R(K)*FR(I)]
Where N(I) OT DC(K) QTY(K) W(K) RPL RSS(K) DSC(K) R(K) FR(I)	Prime equipment inventory (equip/yr) Prime equipment operating time (hrs/equip/yr) Duty cycle of Kth item (ratio) Quantity of Kth item (quantity/item) Weight of Kth item (#) Packaging labor cost (\$/#) Repair level ratio (ratio) Discard rate of Kth item (ratio) Mean time between failures of Kth item (hrs/failure) Reliability improvement/degradation factor (factor)

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CBS 321320 Packaging Material cost incurred during the process of shipping failed items between the intermediate and depot level maintenance facilities are

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Y NK

$ N(I)* $ OT*DC(K)*QTY(K)*2*W(K)*RPM*[1-RSS(K)] *

I=1 K=1

[1-DSC(K)] / [R(K)*FR(I)]
```

Where

N(I)	Prime equipment inventory (equip/yr)
OT	Prime equipment operating time (hrs/equip/yr)
DC(K)	Duty cycle of Kth item (ratio)
QTY(K)	Quantity of Kth item (quantity/item)
W(K)	Weight of Kth item (#)
RPM	Packaging material cost (\$/#)
RSS(K)	Repair level ratio (ratio)
R(K)	Mean time between failures of Kth item (hrs/failure)
FR(I)	Reliability improvement/degradation factor (factor)

CBS 321330 Shipping cost incurred during the transportation of failed items between the intermediate and depot level maintenance facilities are

Y NK **\$ N(I) \* \$** OT\*DC(K)\*QTY(K)\*2\*W(K)\*RSR\*RW(K)\*[1-RSS(K)]\* I=1 K=1 [1-DSC(K)] / [R(K)\*FR(I)]

Where

Prime equipment inventory (equip/yr)
Prime equipment operating time (hrs/equip/yr)
Duty cycle of Kth item (ratio)
Quantity of Kth item (quantity/item)
Weight of Kth item (#)
Shipping cost (\$/#)
Item packing weight ratio (shipping Wt/unpacked Wt)
Repair level ratio (ratio)
Discard rate of Kth item (ratio)
Mean time between failures of Kth item (hrs/failure)
Reliability improvement/degradation factor (factor)

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CBS 322100
Preventive Maintenance Labor costs are
   Y
             NM
   S N(I) * S OT * LPM(N) * RSL / NPM(N)
  I=1
            N=1
Where
  N(I)
           Prime equipment inventory (equip/yr)
  OT
           Prime equipment operating time (hrs/equip/yr)
  LPM(N)
           Maintenance time of Nth type PM action (hrs/equip/action)
  RSL
           O/I maintenance personnel pay rate ($/hr)
           Time between inspections of Nth type PM (hrs/action)
  NPM(N)
  N
           Designator for a specific preventive maintenance type
  NM
           Number of preventive maintenance types
CBS 322200
Preventive Maintenance Material costs are
   Y
             NM
   S N(I) * S OT * MPM(N) / NPM(N)
  I=1
            N=1
Where
  N(I)
           Prime equipment inventory (equip/yr)
  OT
           Prime equipment operating time (hrs/equip/yr)
  MPM(N)
           Material cost of Nth type PM action ($/equip/action)
  NPM(N)
           Time between inspections of Nth type PM (hrs/action)
           Designator of a specific preventive maintenance type
  N
  NM
           Number of preventive maintenance types
CBS 323100
Prime equipment Overhaul Maintenance Labor costs are
   Y
   § NOH(I) * OHL * RSD
  I=1
Where
   NOH(I)
            Prime equipment overhaul schedule (equip/yr)
   OHL
            Overhaul maintenance time (hrs/equip)
   RSD
            Depot maintenance pay rate ($/hr)
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CBS 323200
Prime equipment Overhaul Maintenance Material costs are
   Y
   S NOH(I) * OHM
  I=1
Where
   NOH(I)
            Prime equipment overhaul Schedule (equip/yr)
   MHO
            Overhaul maintenance material cost ($/equip)
CBS 323300
Transportation of material costs for shipping equipment and
other items during Prime equipment overhaul are
   Y
      NOH(I) * OHT
   S
  I=1
Where
            Prime equipment overhaul schedule (equip/yr)
   NOH(I)
            Material shipping rate ($/equip)
   OHT
CBS 324000
Support & Test Equipment Maintenance Labor and Material costs
are
   Y
   § N(I) * STES
  I=1
Where
           Prime equipment inventory (equip/yr)
   N(I)
           Recurring support cost of S&TE ($/prime equip)
   STES
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CBS 325110
O/I level maintenance shop space costs are
   Y
   § MSSI(I) * CSI
  I=1
Where
   MSSI(I)
             O/I maintenance shop space (sq. ft./yr)
   CSI
             O/I maintenance space cost ($/sq. ft.)
CBS 325120
Depot level maintenance shop space costs are
   Y
   § MSSD(I) * CSD
  I=1
Where
   MSSD(I)
             Depot maintenance shop space (sq. ft/yr)
   CSD
             Depot maintenance space cost ($/sq. ft.)
CBS 325210
O/I level maintenance material storage costs are
   Y
   § ISSI(I) * CSI
  I=1
Where
   ISSI(I)
             O/I maintenance material storage space (sq. ft./yr)
   CSI
             O/I maintenance space cost ($/sq. ft.)
CBS 325220
Depot level maintenance material storage costs are
   Y
   § ISSD(I) * CSD
  I=1
Where
   ISSD(I)
             Depot maintenance material storage space (sq. ft./yr)
   CSD
             Depot maintenance space cost ($/sq. ft.)
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CBS 326000 Technical data maintenance costs for managing the technical data distribution center are Y S NP \* RDM I=IYI Where Number of pages in a set of technical data (pages) NP Technical data management costs RDM (\$/page) IYI Initial year CBS 327100 Corrective Maintenance Replenishment Spares costs are Y NK § N(I)\* § OT\*DC(K)\*QTY(K)\*CST(K)\*DSC(K) / [R(K)\*FR(I)] I=1K=1 Where N(I) Prime equipment inventory (equip/yr) OT Prime equipment operating time (hrs/equip/yr) DC(K) duty cycle of Kth item (ratio) Quantity of Kth item (quantity/item) QTY(K) CST(K) Unit cost of the Kth item (\$/item) DSC(K) Discard rate of Kth item (ratio) Mean time between failures of Kth item (hrs/failure) R(K) FR(I) Reliability improvement/degradation factor (factor) CBS 327200 Supply support management costs are Y S [ NSNP + NSNS ] \* RIM I=IYI Where NSNP Number of new NSNs for prime equipment (NSN) Number of new NSNs for S&TE equipment (NSN) NSNS RIM Supply support management costs (\$/NSN) IYI Initial year

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CBS 328100
Operator course pay and allowance costs incurred by students
during training period are
   Y
   $ LO(I) * RAM * CTO
  I=1
Where
           Manning level of operating personnel (personnel/yr)
   LO(I)
           Personnel attrition rate
                                    (ratio)
   RAM
           Operator training cost ($/student)
   СТО
CBS 328200
O/I level maintenance personnel pay and allowance costs incurred
by students during training period are
   Y
   S
     LM(I) * RAM * CTM
  I=1
Where
           Manning level of O/I maintenance personnel (personnel/yr)
   LM(I)
   RAM
           Personnel attrition rate (ratio)
           O/I maintenance personnel training cost ($/student)
   CTM
CBS 328300
Depot level maintenance personnel pay and allowance costs incurred
by students during training period are
   Y
     LP(I) * RAP * CTP
   S
  I=1
Where
           Manning level of Depot maintenance personnel (personnel/yr
   LP(I)
   RAP
           Personnel attrition rate (ratio)
   CTP
           Depot maintenance personnel training cost ($/student)
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CBS 330000 Termination cost/value of the Prime equipment is

Y S NPO(I) \* TERM I=1

## Where

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NPO(I) Prime equipment phase out schedule (equip/yr) TERM Prime equipment net terminal cost/value (\$/equip)

# APPENDIX B

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# Life Cycle Cost factor

Names, Descriptions, Dimensions, and Sources

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### Life Cycle Cost Factors

Names, Descriptions, Dimensions and Sources

The material in this appendix contains a listing of the 104 Cost Factors used in the NAVMAT LCC Model. Names, Descriptions, Dimensions and the source of information have been identified for all the Cost Factors. These major sources are:

- 1. Program Management Office (PMO)
- Program Manager for Logistics (PM(L)) and/or his/her Logistic Managers
- 3. The Contractor
- 4. Analyst

Name Description Dimension Source	AD(I) Acquisition cost of data during Investment in year I. This refers to acquiring, writing, assembling, refor- mating technical manuals and other documentation not overed during Research & Development phase. \$/year PMO
Name Description Dimension Source	ADC(I) Government payments to the contractor for technical and managerial work performed during the Validation phase of the Research & Development in year I. \$/year PMO
Name Description Dimension Source	ADG(I) Government expenditures for technical and managerial work performed during the Validation phase of the Research & Development in year I. \$/year PMO
Name Description Dimension Source	ATU(I) Acquisition, transportation, and installation costs of training aids and devices to conduct operator, maintenance personnel, and instructor training courses during initial training program in year I. \$/year PM(L)
Name Description Dimension Source	BY Base year during/from which all cost adjustments are made. Dimensionless PMO

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Name Description Dimension Source	CE Energy consumption cost incurred during the operation of the prime equipment. \$/hr/equip PM(L) & Contractor
Name Description Dimension Source	CIPE Installation cost of the prime equipment (If not covered by the acquisition cost). This cost refers to the material and services involved in assembling the equipment and complete checkout to assure achievement of operational status. \$/equip PM(L)
Name Description Dimension Source	CM Cost of materials consumed during the operation of the prime equipment. \$/hr/equip PM(L) & contractor
Name Description Dimension Source	CP Average cost per page of set-up, reproduction, and distribution of technical manuals. \$/page/copy PM(L)
Name Description Dimension Source	CS(I) Software maintenance cost during prime equipment operation in year I. \$/year PM(L)

Name	CSD
Description	Area cost for depot level maintenance space
Dimension	\$/sq.ft./year
Source	PM(L)
Name	CSI
Description	Area cost for O/I level maintenance space
Dimension	\$/sq.ft./year
Source	PM(L)
Name	CSO
Description	Area cost for Operational space.
Dimension	\$/sq.ft./year
Source	PM(L)
Name	CST(K)
Description	Unit cost of the Kth spare/repair item.
Dimension	\$/item
Source	PM(L)
Name Description Dimension Source	CTI Average cost incurred during instructor training course for personnel pay & allowance, travel, and course fees. \$/student PM(L)
Name Description Dimension Source	CTM Average cost incurred during O/I maintenance personnel training course for personnel pay & allowance, travel and course fees. \$/student PM(L)

Name Description Dimension	CTO Average.cost incurred during operating personnel training course for personnel.pay & allowance, travel, and course fees. \$/student PM(1)
Name Description	CTP Average cost incurred during depot maintenance per- sonnel training course for personnel pay & allowance travel, and course fees. \$/student PM(L)
Dimension Sourse	
Name Description	CTPE Transportation cost of prime equipment from contractors facility to installation site (if not included in acqu- isition cost). This includes the packaging and trans- portation of the prime equipment from the contractors facility to the first destination, and then to the second destination (operation site)
Dimension Source	\$/equip PM(L)
Name Description	CU Unit price of the prime equipment. In addition to the prime equipment hardware this cost may include part or all of production support and services costs, and transportation and installation cost of the equipment. (These costs should be identified properly to avoid double counting). S/equip
Source	PMO
Name Description Dimension Source	DC(K) Duty cycle of the Kth spare/repair item. Percent of prime equipment operating time. Ratio (Item operating time/Equip. operating time) PM(L) & Contractor

Name Description Dimension Source	DCD(I) Payment by the Government to the Contractor for all the deliverable data acquired during full scale deve- lopment in year I. The data requirement will normally be selected from the departmental or agency authorized data list. It includes the effort for acquiring, writing, assembling, reformating, production, packaging and shipping Engineering data, Support data, and Management data required by the government. \$/year PMO
Name Description Dimension Source	DCE(I) Payments by the Government to the Contractor for the engineering efforts during full scale development in year I. This includes all engineering efforts associ- ated with the equipment design and development. Specifically, the cost of system engineering, and integration, design engineering, design support en- gineering, and engineering planning costs. It in- cludes the cost of direct labor, material, overhead, and other direct costs incurred during the engineer- ing process. \$/year PMO
Name Description Dimension Source	DCH(I) Payments by the Government to the Contractor for the hardware development efforts during full scale development in year I. This includes the fabrication and assembly of full scale development models in support of the engineering design activity. This includes the cost of direct labor, materials and over- head associated with material procurement and handling, tooling and test equipment in support of manufacturing, fabrication, assembly, system integration, and checkout. \$/year PMO

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Name Description Dimension Source	DCPM(I) Payment by the Government to the Contractor for the Management effort during full scale development in year I. This refers to the costs incurred for planning, organizing, manning, directing, and con- trolling the technical and administrative activities of the project. This includes the cost of personnel, services, and overhead associated with cost/schedule control, configuration management, data management, contract management, and ILS (Integrated logistic support) management. \$/year PMO
Name Description Dimension Source	DCS(I) Payment by the Government to the Contractor for software development effort for the prime equipment during full scale development in year I. This in- cludes the cost of direct labor, material, overhead, and other direct costs associated with the computer software development. \$/year PMO
Name Description Dimension Source	DCST(I) Payment by the Government to the Contractor for the development of the Peculiar Support and Test equipment during full scale development in year I. This refers to all costs inclusive of the software costs associ- ated with Peculiar Support & Test equipment. \$/year PMO

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Name Description	DCTE(I) Payment by the Government to the Contractor Test & Evaluation efforts during full scale development in year I. This refers to the costs which are incurred in support of the government testing (DTE and IOTE) during the full scale development phase of the equipment life cycle. This cost factor may include for example: spares, repair parts, support & test equipment, training, test site activation, facility requirements, and services. Development test and evaluation (DTE) support is designed to determine and/or verify technical per- formance and safety characteristics of an item, associated tools and test equipment. It includes determination of structural, mechanical, electrical, chemical and other physical properties of the equipment. DTE is generally conducted in contrac- tors facilities. Initial operational test and evaluation (IOTE) support refers to the operational test and evalua- tion performed during the full scale development prior to the production decision to provide in- formation as to the equipment military use expected operational effectiveness and operational suita- bility, maintenance concepts, training needs and technical manual suitability. IOTE is generally conducted at Government facilities.
Dimension Source	\$/year PMO
Name Description Dimension	DGPM(I) Government project management costs incurred during full scale development in year I. This refers to the technical and administrative planning, organi- zing, directing, coordinating, controlling, and approval actions designed to accomplish overall program objectives. Examples of these activities are configuration management, cost/schedule manage- ment, data management, contract management, and integrated logistic support management. \$/year

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Name Description Dimension Source	DGTA(I) Government costs for test site activation/deactiva- tion during full scale development Test & Evaluation program in year I. This refers to the costs for test site modification, transportation and installation of the prototype models at the test site, test site operation, restoration and facilities leased or government facilities used during Test & Evalu- ation program. \$/year PMO i
Name Description	DGTE(I) Government personnel costs incurred during full scale development Test & Evaluation program for
Dimension Source	testing and evaluation. \$/year PMO
Name Description	DGTT(I) Government costs to train students during full scale development Test & Evaluation program in year I. This refers to the pay & allowance and travel expen- ses and the course fees and the training facilities provided by the government.
Dimension Source	\$/year PMO
Name Description Dimension Source	DR(I) Annual discount rate for future costs in year I. Ratio PMO & Analyst
Name Description Dimension Source	DSC(K) Discard rate of the Kth spare/repair item. Ratio PM(L) & Contractor

Name Description Dimension Source	FDRT Required stockage time for depot level repairable items at O/I and depot level. Days PM(L)
Name Description Dimension Source	FILS Required stockage time for replenishment spares at O/I level. Days PM(L)
Name Description Dimension Source	FIRT Repair cycle time of repairable items at O/I level. Days PM(L)
Name Description Dimension Source	FM Repair material rate. Ratio - (Repair material cost/Item unit cost) PM(L)
Name Description Dimension Source	FMS(I) Maintenance site construction/preparation costs during Investment period in year I. \$/year PMO
Name Description Dimension Source	FOS(I) Operational site construction/preparation costs during Investment period in year I. \$/year PMO

Name Description Dimension Source	FPST Procurement lead and safety level stockage time for initial spare & repair parts. Days PM(L)
Name Description Dimension Source	FR(I) Reliability improvement or degradation factor during year I. Dimensionless PM(L)
Name Description Dimension Source	IRCON(I) Annual inflation rate for future costs for construc- tion type of funding during year I. Ratio Analyst
Name Description Dimension Source	IROM(I) Annual inflation rate for future costs of O&M type of funding during year I. Ratio Analyst
Name Description Dimension Source	IRPROC(I) Annual inflation rate for future costs of procurement type of funding during year I. Ratio Analyst
Name Description Dimension Source	IRRD(I) Annual inflation rate for future costs of R&D type of funding during year I. Ratio Analyst

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Name Description Dimension Source	ISSD(I) Storage space required for the depot inventory during year I. sq.ft./year PM(L) & Contractor
Name Description Dimension Source	ISSI(I) Storage space required for the O/I inventory during year I. sq.ft./year PM(L) & Contractor
Name Description Dimension Source	IYI Year I during which initial cost occur. Dimensionless PMO
Name Description Dimension Source	LO(I) Desired manning level for operating personnel during year I. Personnel/year PM(L) & Contractor
Name Description Dimension Source	LM(I) Desired manning level for O/I level maintenance personnel during year I. Personnel/year PM(L) & Contractor
Name Description Dimension Source	LP(I) Desired manning level for depot level maintenance personnel during year I. Personnel/year PM(L) & Contractor

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LPM(N) Name Preventive maintenance labor time for the Nth Description type of maintenance action. hrs/action Dimension PM(L) & Contractor Source - -. . . . . • · . LSD(K) Name Depot maintenance labor time to repair the Kth Description item. hrs/item Dimension Source PM(L) & Contractor LSI(K) Name O/I maintenance labor time to repair the Kth Description item. Dimension hrs/item PM(L) & Contractor Source Name LSO(K) O/I maintenance labor time to remove, replace the Description Kth item. Dimension hrs/item Source PM(L) & Contractor Name MPM(N)Material cost for the Nth type of preventive Description maintenance action. Dimension \$/action Source PM(L) & Contractor

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Name Description Dimension Source	MSSD(I) Shop space required for depot maintenance during year I. sq.ft./year PM(L) & Contractor
Name Description Dimension Source	MSSI(I) Shop space required for O/I maintenance during year I. sq.ft./year PM(L) & Contractor
Name Description Dimension Source	N(I) Number of equipments in the Navy's inventory system at the end of year I. equip/year PM(L)
Name Description Dimension Source	NC(I) Number of copies of technical data to be distributed and inventoried during year I. copies/year PM(L)
Name Description Dimension Source	NK Total number of spare/repair items in the prime equipment. Dimensionless PM(L) & Contractor
Name Description Dimension Source	NM Number of preventive maintenance types of the prime equipment. Dimensionless PM(L) & Contractor

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Name Description Dimension Source	NN(I) Prime equipment annual acceptance schedule. Number of equipments acquired during year I. equip/year PMO & PM(L)	
Name Description Dimension Source	NOH(I) Prime equipment overhaul schedule. Number of equipments scheduled to be overhauled during year I. equip/year PMO & PM(L)	
Name Description Dimension Source	NP Number of pages per technical manual maintained by Navy. pages/copy PM(L) & Contractor	
Name Description Dimension Source	NPM(N) Time between inspections of the Nth type of preventive maintenance action. hrs/action PM(L) & Contractor	
Name Description Dimension Source	NPO(I) Prime equipment phase out schedule. Number of equipments scheduled to be phased out during year I. equip/year PMO & PM(L)	

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Name Description Dimension Source	NSNP Total number of new National Stock Numbers (NSN) to be issued on the prime equipment NSN PM(L) & Contractor
Name Description Dimension Source	NSNS Total number of new National Stock Numbers (NSN) to be issued on the peculiar Support & Test equipments NSN PM(L) & Contractor
Name	OHL
Description	Prime equipment overhaul maintenance labor time.
Dimension	hrs/equip
Source	PM(L) & Contractor
Name	OHM
Description	Prime equipment overhaul maintenance material cost.
Dimension	\$/equip
Source	PM(L) & Contractor
Name Description Dimension Source	OHT Prime equipment overhaul maintenance material shipping rate. \$/equip PM(L) & Contractor
Name	OT
Description	Prime equipment annual operating time.
Dimension	hrs/equip/year
Source	PMO

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Name Description Dimension Source	<pre>PMG(I) Government project management costs incurred during the Investment period in year I. This refers to the technical and administrative planning, organizing, directing, coordinating, controlling and approval actions designed to accomplish overall program objectives. Examples of these activities are configuration management, cost/schedule management, data management, contract management, value engi- neering, quality assurance, and integrated logistic management. \$/year PMO</pre>
Name Description Dimension Source	PO Number of personnel required to operate a prime equipment. personnel/equip PM(L)
Name Description Dimension Source	PSOS Floor space required for the operation of a prime equipment. sq.ft./equip PM(L) & Contractor
Name Description Dimension Source	PSS(I) Production support and services cost incurred during the Investment period of the life cycle cost. These are the supportive costs incurred during the production of the prime equipment. These costs may include engineering, facilities, production tooling and testing equipment, quality assurance, overhead costs of general and administrative expenses and contract fee. (NOTE: All or a portion of these costs may be included in the prime equip- ment hardware acquisition cost. If so user should be carefull not to <u>double count</u> the cost). \$/year PMO

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Name Description Dimension Source	PTE(I) Production Test and Evaluation costs incurred during Investment period in year I. These costs refer to Production Acceptance Test (PATE) and Operation Acceptance Test (OTE). Production Acceptance Tests are conducted on production items produced early in the production run. They are designed to assure that production equipments con- form to design specifications and performance requi- rements when manufactured in accordance with produc- tion specifications. Operational tests are conducted by user personnel under the conditions of the opera- tional tactical environment. They are designed to determine the equipment operational effectiveness and validate organization doctrine, tactics, training requirements and logistic support. \$/year PMO
Name Description Dimension Source	PTI(I) Number of instructors to receive initial training during year I. student/year PN(L)
Name Description Dimension Source	PTM(I) Number of O/I maintenance personnel to receive initial training during year I. student/year PM(L)
Name Description Dimension Source	PTO(I) Number of Operating personnel to receive initial training during year I. student/year PM(L)

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Name Description Dimension Source	PTP(I) Number of depot maintenance personnel to receive initial training during year I. student/year PM(L)
Name Description Dimension Source	QTY(K) Number of quantities of Kth spare/repair item quantity/item PM(L)
Name Description Dimension Source	R(K) Mean Time Between Failures of the Kth spare/repair item. hrs/failure PM(L)
Name Description Dimension Source	RAM Operator and O/I level maintenance personnel attrition rate. ratio PM(L)
Name Description Dimension Source	RAP Depot level maintenance personnel attrition rate. ratio PM(L)
Name Description Dimension Source	RDM Technical data management costs for file mainte- nance. \$/page/year PM(L)

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Name Description Dimension Source	RIE Average National Stock Number (NSN) entry cost into the supply system. \$/NSN PM(L)
Name Description Dimension Source	RIM Supply support management item retention and field administration cost. \$/NSN PM(L)
Name	RO
Description	Prime equipment operator pay rate.
Dimension	\$/hr/man
Source	PM(L)
Name	RPL
Description	Packaging labor cost.
Dimension	\$/#
Source	PM(L)
Name	RPM
Description	Packaging material cost.
Dimension	\$/#
Scurce	PM(L)

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Name Description Dimension Source	RSD Depot maintenance personnel pay rate to repair failed items. \$/hr/man PM(L)
Name Description Dimension Source	RSL O/I maintenance personnel pay rate to remove replace or repair failed items. \$/hr/man PM(L)
Name Description Dimension Source	RSR Average shipping Cost. \$/# PM(L)
Name Description Dimension Source	RSS(K) Fraction of failures repaired at the intermediate maintenance level. This value lies inclusively between "0" and "1". "0" refers to all depot repair and 1 refers to all intermediate depot repair. ratio PM(L) & Contractor
Name Descrigtion Dimension Source	RW(K) Ratio of the shipping weight to the unpacked weight of the Kth item. ratio PM(L) & Contractor

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Name Description Dimension Source	STE(I) Support & Test equipment acquisition costs incurred during Investment period in year I. This refers to the Support & Test equipments required to maintain and care for the prime equipment while not directly engaged in the performance of its mission. This includes vehicles, equipment and tools used to service transport and hoist, repair, overhaul, assemble, disassemble, test, inspect or otherwise maintain the mission equipment. This also includes the software costs associated with the Support & Test equipment. \$/year PMO
Name Description Dimension Source	STEM Support & Test equipment initial support rate. Percent of S&TE acquisition cost ratio PM(L)
Name	STES
Description	Support & Test equipment recurring support cost.
Dimension	\$/Prime Equipment
Source	PM(L)
Name	W(K)
Description	Unpacked weight of the Kth spare/repair item.
Dimension	#/item -
Source	PM(L) & Contractor

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Name Description Dimension Source	TERM Termination cost and/or value of the prime equipment. \$/equip PM(L)	
Name Description	Y Total number of years covered by the life cycle cost analysis.	-
Dimension Source	dimensionless PMO	

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## APPENDIX C

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والمتحققين والغائلان

والمعاومة فالمنازو ترجعت وتعريف أستنز الارتقاطين ولالا

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### Inflation/Discounting Adjustment Factors

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#### Inflation/Discounting Adjustment Factors

Life Cycle Cost Analysis is concerned with the evaluation of alternatives. These alternatives are described by indicating the timing of the future disbursements that will result from each procurement decision. Guidelines for adjusting future expenditures for the effects of time, cost of capital and inflation are found in SECNAVINST 7000.14B.

The LCC MODEL developed by the Naval Material Command adjusts all costs which occur during and after the BY (Base Year). The adjustment factors convert the future expenditures to current dollar value, which represents the general purchasing power of the dollar at the time of the decision, by the following method:

Future current dollar value is

$$\left(1 + IR\right)^n$$

Where

"IR" is the annual inflation rate

"n" is the number of years after the base point decision

The adjustment factor then converts this future current dollar expenditure into its present value dollar by the following method:

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Present value dollar is



Where

"DR" is the annual discount rate

The present value dollar represents the amount of money the Government must put into an interest or profit generating account at the time of the decision to have the future current dollar available for an expenditure at the end of " n " years.

The above equations assume that the future expenditure occurs at the end of " n " years but the cost is usually incurred throughout the year. Therefore, in accordance with SECNAVINST 7000.14B, an aritmetic mean (average) adjustment factor equation has been developed for the LCC MODEL:

Annual adjustment factor is

$$\left\{ \left\{ \frac{1 + IR}{1 + DR} \right\}^{n-1} + \left\{ \frac{1 + IR}{1 + DR} \right\}^{n} \right\} \stackrel{\bullet}{\longrightarrow} 2$$

NAVMAT LCC Model uses four inflation adjustment factors and one discount adjustment factor subscripted by year.

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APPENDIX D

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# NAVMAT Equipment LCC Model Sample Computer Run

NAVMAT EQUIPMENT LCC Model Sample Computer Run

This Appendix contains an example of the types of Reports available from the LCC Computer program developed by the Naval Material Command.

The values used in this sample data <u>should not</u> be considered as reference for actual calculations.

All input and output reports are provided in constant dollars except the Summary Output Report which is provided in constant dollars, inflated dollars, and inflated and discounted dollars.

A sensitivity analysis is provided for both the Scalar and the Array type of variables.



PAGE 1.001 SAMPLE COMPUTER RUN FOR NAVMAT EQUIPMENT LIFE CYCLE COST MODEL RAM. 40. Ro=7.87. CP=.05. CTH=750. NAT=117. TV1=2. CHIIIIITIIII 4 RH THIS PADGMAW IS MASED ON COST ALGORITHIMA PROVIDED BY THE RH THIS PADGMAW IS MASED ON COST ALGORITHIMA PROVIDED BY THE RH DAVAL VEAPONS EMFINEERING SUPPORT ACTIVITY MANAGEMENT EMGINEERING RH DATA IS PANYIRED FOR SAMPLE PURPOSE ONLY AND SHOULD NOT RE USED RH AS ARSE FOR INTERPRETATION FOR ANY PROJECT. RH AS ARSE FOR INTERPRETATION OF INPUT DATA OR LCC PHILOSOPHY RH SHOULD AE DIRFCTED TO RH SHOULD AE DIRFCTED TO RH MALL VEAPONS EMGINEERING SUPPORT ACTIVITY ESA-4431 ALPUAN ATY RH MASHIMATON NAVY YARD RH MASHIMATON NAVY YARD RH MASHIMATON NAVY YARD RH MASHIMATON D.C. 20374 RH MASHIMATON. D.C. 20374 0051=NH0 INPUT DATA LIGTING AND ERROR DIAGNOSTICS w=75,100.170.300.250.190.300.50.600.450.275.310.140.260.700. CM-50. CTT=1000. CTT=1000. FST=111. FST=411. FST=411. PT05=50. R1M=100. R1M=100. cs1=750.1208.5008.4200.1700.2=3500.9000.44508.2°2500.6000. R=758.580.878.608.758.408.609.900.40350.700.1200.1580. 855=1..00.7.5.5.1..6..60.90.90.4.05.05.05.7.4. PO=1. RIE=100. RSD=17.22. TERM=1200. CTPE=1500. CSO=240. CTPE=600. FM=,12. NSNS=357. D5C=1:.2:2\*2\*1:0..1:0:A\*1: L5D=0:7:18.6.0:9:6.20:495:10;5+15. L5T=0:5:12:4.0:6:5:15:4#3:7:3:11. LS0=3+2+1.8+2.6+4+2+3+4+4+2+4+1+3+ CE=2. CS1=240. CTP=1000. F1RT=3. NSNP=75. 01=1680. RDM=180. RPM=.5. STES=5000. 1.3.6.1.2.1.4.2.3.1. DC=4\*.75,1,3\*,75,7\*1. ADC=5500000,4=0, ADG=250000,4=0, ATU=50000,4=0, r=7=0,3=15000. DCD=150000.400. DCE=000000.400. DCH=600000.400. 64.4.0. CSD=2.4: CT0=500: FIL5=90: RAP.. 13. RPL = 1.0. STEM.. 25. NM.2. NP=200. NPM=100.600. PW=15+1.25. MPM=50.150. -5 NK#15. BY=1: LPH=8.15. 40=3000 07Y=2.4 **LINPUT** DATE 11/ 1/76

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# SAMPLE COMPUTER RUN FOR NAVMAT FUULPMENT LIFE CYCLE COST MODEL

## NAMES. DESCRIPTIONS, AND DIMENSIONS OF AUILT-IN VAPIABLES

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CP 0.05	OST PER PAGE OF SET-UP, REPRODUCTION AND DISTRIBUTION OF TECHNICAL MANUALS ( S/PAGE/COPY )	•	····•••
CS ( 5) SOFTWARE ) 0.0 0.0	MAINTEMANCE COST DURING PRIME EQUIPMENT OPERATION ( \$/YEAR ) 00   15.000.00   15.000.00   15.000.00	•	
CSD AREA COST 2.40	FOR DEPOT LEVEL MAINTEMANCE { \$/\$0, F1./YEAR }	•	
<b>CSI</b> 240,00 AREA COST 240,00	FOR D/I LEVEL MAINTENANCE SPACE ( \$/\$9. FT./YEAR )	•	<b></b>
CSO AREA COST 240,00	FOR DPERATIONAL SPACE ( \$/50. FT./YEAR )	•	نعور
CST ( 15) UNIT COST 750.00 1.200.0 500.00 500.0	OF THE KTH SPARE/REPAIR ITEM ( \$/1TEM ) 00 5:000.00 4:200.00 1:700.00 3 <b>:500.00 3:500.00 9:000.00 5:00.00</b> 00 2:500.00 2:500.00 6:000.00		
CTI AVERAGE IN 1.000.00	NSTRUCTOR TRAINING COST FOR PERSONNEL PAY 4. ALLONANCE TRAVEL AND COURSE FEES ( S/STUDENT )	•	المتحد والم
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	SAMPLY COMPUTER RIM NAMES, RESCRIPTIONS, DI DESCRIPTIONS, DI DESCRIPTIONS, RAMINERSONMEL TRAIN AVERARE OPERATING PERSONMEL TRAINING CO AVERARE DEPOT MAINTEMANCE PERSONMEL TRAIN AVERARE DEPOT MAINTEMANCE PERSONMEL TRAINING CO AVERARE DEPOT MAINTEMANCE PERSONMEL TRAIN TRANSPORTATION COST OF PRIME EQUIPMENT 9 TRANSPORTATION COST OF THE CONTRAC 0.000 PAYMENT BY THE GOVERNMENT TO THE CONTRAC 0.000 PAYMENT BY THE FOULDECT MANAGEMENT COSTS FOR CONTRAC		FOR NAVNAT EQUIPHENT LIFE CYCLE COST MODEL	TENSIONS, AND VALUES OF BUILT-IN VARIABLES		ING COST FOR PAY & ALLOWANCE, TRAVEL AND COURSE FEES   1/STUDENT )	TTS FOR PAY & ALLOVANCE, TRAVEL AND COURSE FEES ( S/STUDENT )	INING COSTS FOR PAY & ALLOWANCE. TRAVEL AND COURSE FEES ( S/STUDENT )	ROM CONTRACTORS FACILITY TO INSTALLATION SITE ( \$/EQUIP. )	JIPMENT ( S/EQUIPMENT )	( RATIO ) 0.75 0.75 0.75 0.75 0.75 1.00 1.00 1.00 1.00 1.00 0.75 0.75 0.75 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	CTOR FOR ALL THE DATA ACQUIRED DURING FULL SCALE DEVELOPMENT ( \$/YEAR ) 0.00	CTOR FOR THE ENGINEERING EFFORTS DURING FULL SCALE DEVELOPMENT ( S/YEAR ) 0.00	CTOR HARDWARE DEVELOPMENT EFFORTS DURING FULL SCALE DEVELOPMENT ( \$/YEAR ) 0.00	CTOR MANAGEMENT EFFORTS DURING FULL SCALE DEVELOPMENT ( \$/YEAR ) 0.00	CTOR SOFTWARE DEVELOPMENT EFFORT DURING FULL SCALE DEVELOPMENT ( S/YEAR ) 0.00	CTOR SATE DEVELOPMENT EFFORT DURING FULL SCALE DEVELOPMENT ( 5/YEAR ) 0.00	CTOR TESTLEVALUATION EFFORTS DURING FULL SCALE DEVELOPMENT ( S/YEAR ) 0.00	JARED DURING FULL SCALE DEVELOPMENT ( S/YEAR ) 0.00	ON/DEACTIVATION DURING FULL SCALF DEVELOPMENT THE PROGRAM { \$/YEAR }	V VALUES FROM LEFT TO RIGHT
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0476 11/ 1/76

NAME

SAMPLE COMPUTER NIM FOR NAVNAT EQUIPMENT LIFE CYCLE COST MONEL

NAMES, DESCRIPTIONS, DIMENSIONS, AND VALUES OF BUILT-IN VARIABLES

DESCRIPTION

GOVERNMENT PERSONNEL COSTS INCURRED DURING FULL SCALE DEVELOPMENT THE PROGRAM FOR TESTING & FVALUATION ( 5/YEAR ) 0.90 0.90 0.00 0.00 0.00 0.00 0.00 275,000.00 - 2î DATE

GOVERNMENT COST TO TRAIN STUDENTS DURING FULL SCALE DEVFLOPMENT TEST & EVALUATION PROGRAM ( \$/YEAR ) 0.06 0.00 0.00 0.00 10.000.00 6 1611

DA ( 5) ANNUAL DISCOUNT RATE FOR FUTURE COSTS ( RATIO ) 0.10 0.10 0.10 0.10 0.10 0.10

ot-0 0.00 0.10 0.00 0.10 0.10 0.10 DISCARD RATE OF THE KINH ITEM ( RATIO ) 0.10 0.20 1.00 (151) OSC

0.10

0.10

REQUIRED STOCKAGE TIME FOR DEPOT LEVEL REPAIRABLE ITEMS AT 0/I AND DEPOT LEVEL ( DAYS ) Ē

FILS REQUIRED STOCKAGE TIME FOR REPLENISHMENT SPARES AT N/I LEVEL ( DAYS )

117.00

.

FIRT REPAIR CYCLE TIME OF REPAIRABLE ITEMS AT O/I LEVEL ( DAYS ) 3.00

M REPAIR MATERIAL RATE ( RATIO )

0.12

D-15

MAINTENANCE SITE CONSTRUCTION/PREPARATION COSTS DURING INVESTMENT PERIOD ( \$/YEAR ) 400.000.00 200.000.00 0.00 0.00 0.00 0..0 ົດ

OPERATIONAL SITE CONSTRUCTION/PREPARATION COSTS DUAING INVESTMENT PERIOD ( \$/YEAR )
150.000.00 75.000.00 0.00 0.00 0.00 0.00 ŝ ŝ

PROCUREMENT LEAD AND SAFETY LEVEL STOCKAGE TIME FOR INITIAL SPARE AMD RFPAIR PARTS ( DAYS ) 411.00 FPST

 ANNUAL INFLATION RATE FOR FUTURE COSTS FOR CONSTRUCTION TYPE OF FUNDING ( RATIO ) 0.06 0.06 0.06 0.06 ŝ **IPCON** 

ANNUÁL INFLATION RATE FOR FUTURE COSTS OF QLM TYPE OF FUNDING (RATIO A.a. a.a. b.as 0.05 0.05 **20°0** 0.05 .... 5 NOul

ANNUAL INFLATION RATE FOR FUTURE COSTS OF PROCUPEMENT TYPE OF FUNDING ( RATIO ) 0.07 0.07 0.07 0.07 0.07 ŝ **JAPRAC** 

ANNUAL INFLATION RATE FOR FUTURE COSTS OF RLD TYFE OF FUNDING & RATIO 0.05 0.05 0.05 0.05 0.05 ທີ **TRRD** 

• • • • • • READ ARRAY VALUES FROM LEFT TO RIGHT • • • •

PAGE 4.003

بالمبرد بالمسرح فالمرد مناور مارا مالايتانا

والمتعلقات والمتعادية والمستعلم والمتحد والمتعادية والمعالية والمعادية

017       11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1				•	© .
NIT 1/1/N     Summer communers man from numer requirence     Part and the second model     Part and the second model       Simple (S)     Summer part and second model     Excentricus, nitrations, ni			· · ·		•
10.       (a)       Strond Sact Realize from the province of built-in variates         11.       (b)       Strond Sact Realize free provinces       Socio         11.1       (b)       Strond Sact Realize free provinces       Socio         11.1       (c)       (c)       Socio       Socio         11.1       (c)       (c)       Socio       Socio         11.1       (c)       (c)       Socio       Socio       Socio         11.1       (c)       (c)       Socio       Socio       Socio       Socio         11.1       (c)       (c)       (c)       Socio       Soc	DATE 1	11/ 1/76	SAMPLE COMPUTER RUM FOR NAVMAT FOUTPHENT LIFE CYCLE COST MODEL	P40E 4.0	•
Mathematical     Discription       153     1, 33     Stratt Recurrent from Tegron (Werthown 150, Fr./Fra.)       154     1, 30     Stratt Stratt Recurrent from Tegron (Werthown 150, Fr./Fra.)       151     1, 30     Stratt Stratt Recurrent from Tegron (Werthown 150, Fr./Fra.)       151     2, 30     Stratt Stratt Recurrent from Tegron (Werthown 150, Fr./Fra.)       151     2, 30     Stratt Stratt Recurrent from Ori Lifet Line Stowell, Freishendel, Freish       161     3, 30     Retrief Recurrent from Ori Lifet Line Freishendel, Freishendel, Freish       161     3, 30     Retrief Recurrent from Ori Lifet Line Freishendel, Freishendel, Freish       161     1, 30     Retrief Recurrent from Ori Lifet Line Freishendel, Freish       161     1, 30     Retrief Recurrent from Ori Lifet Line Freishendel, Freish       161     1, 30     Retrief Recurrent Line Frei Frei Hilfen Line Freish       162     1, 30     2, 30     3, 30       163     1, 130     2, 30     3, 30       164     1, 30     1, 140     1, 30       165     1, 130     2, 30     3, 30       169     1, 130     2, 30     3, 30       169     1, 130     1, 140     1, 140       169     1, 130     1, 140     1, 140       169     1, 130     1, 140     1, 140			NAMES. DESCRIPTIONS. DIMENSIONS. AND VALUES OF BUILT-IN VARIABLES		
<ul> <li>(a) Strate Sate ReuteD. For the OPT UNETION V. (S., F1./TEA.)</li> <li>(b) Strate Sate ReuteD. For the OPT UNETION V. (S., F1./TEA.)</li> <li>(c) Sate Sate ReuteD. For the OPT UNETION V. (S., F1./TEA.)</li> <li>(c) Sate Sate ReuteD. For Second D. Sate Sate Sate Sate Sate Sate Sate Sate</li></ul>	NAME		DESCAIPTION		•
<ul> <li>[43] [a], Strandt Ganet Reutine for the OLI huverloor. [a], FL-VTEA 1</li> <li>[11]</li></ul>	1550	(°) (°)	STORAGE SPACE REQUIRED FOR THE DEPOT INVENTORY ( SO. FT./YEAR ) 0 250.00 250.00 250.00 250.00		3
171     YEAR MUNING WICH HITLE GOT BEGUN ( DIRENSIONEL/YEAR )       10     530       10     630       11     130       12     130       12     150       13     150       14     130       15     150       15     150       15     150       15     150       16     150       17     150       18     150       19     150       10     150       10     150       10     150       10     150       10     150       10     150       10     150       10     150       11     10       12     11       13     11       14     13       150     110       150     110       150     110       150     110       151     110       150     110       150     110       151     110       151     110       151     110       151     110       151     110       151     110       1	1881	( E) 0.00	STARAGE SPACE REQUIRED FOP THE 0/1 INVENTORY ( 50, F1,/YEAR ) 0 1.090.00 1.000.00 1.000.00 1.000.00		•
<ul> <li>(r) (s) RETARD ANAWING LEVEL FOR OPERATING PERSONNEL (PERSONNEL/TEAR)</li> <li>(r) (s) DESTRED ANAWING LEVEL FOR OPERATING PERSONNEL (PERSONNEL/TEAR)</li> <li>(r) (s) DESTRED MANUNG LEVEL FOR DEPOT LEVEL MITNETANCE PERSONNEL (PERSONNEL/TEAR)</li> <li>(r) (s) DESTRED MANUNG LEVEL FOR DEPOT LEVEL MITNETANCE PERSONNEL (PERSONNEL/TEAR)</li> <li>(r) (s) DESTRED MANUNG LEVEL FOR DEPOT LEVEL MITNETANCE ACTION (14/ACTION)</li> <li>(r) (s) DESTRED MANUNG LEVEL FOR DEPOT LEVEL MITNETANCE ACTION (14/ACTION)</li> <li>(r) (s) DESTRED MANUNG LEVEL FOR DEPOT LEVEL MITNETANCE ACTION (14/ACTION)</li> <li>(r) (s) DESTRED MANUNG LEVEL FOR THE FOR MITH MITNETANCE ACTION (14/ACTION)</li> <li>(r) (s) DESTRED MANUNG LEVEL FOR THE FOR MITH MITNETANCE ACTION (14/ACTION)</li> <li>(r) (s) DESTRED MANUNG LEVEL FOR THE FOR MITH MITNETANCE ACTION (14/ACTION)</li> <li>(r) (s) DESTRED MANUNG LEVEL ADDR THE FOR MITH MITNETANCE ACTION (14/ACTION)</li> <li>(r) (s) DISTRED FOR THE TO REPART THE KTH THEM (14/ATTEN)</li> <li>(r) (s) DISTRED FOR THE TO REPART THE KTH THEM (14/ATTEN)</li> <li>(r) (s) DISTRED FOR DETOT LEVEL MAINTENANCE ACTION (14/ACTION)</li> <li>(r) (s) DISTRED FOR DEFOT LEVEL MAINTENANCE ACTION (14/ACTION)</li> <li>(r) (s) DISTRED FOR DEFOT LEVEL MAINTENANCE ACTION (14/ACTION)</li> <li>(r) (s) DISTRED FOR DEFOT LEVEL MAINTENANCE ACTION (14/ACTION)</li> <li>(r) (s) DISTRED FOR DEFOT LEVEL MAINTENANCE ACTION (14/ACTION)</li> <li>(r) (s) DISTRED FOR DEFOT LEVEL MAINTENANCE ACTION (14/ACTION)</li> <li>(r) (s) DISTRED FOR DEFOT LEVEL MAINTENANCE ACTION (14/ACTION)</li> <li>(r) (s) DISTRED FOR DEFOT LEVEL MAINTENANCE ACTION (14/ACTION)</li> <li>(r) (s) DISTRED FOR DEFOT LEVEL MAINTENANCE ACTION (14/ACTION)</li> <li>(r) (s) DISTRED FOR DEFOT LEVEL MAINTENANCE ACTION (14/ACTION)</li> <li>(r) (s) DISTRED FOR DEFOT LEVEL MAINTENANCE ACTION (14/ACTION)</li> <li>(r) (s) DISTRED FOR DEFOT LEVEL MAINTENANCE ACTION (14/ACTION)</li> <li>(r) (s) DISTRED FOR DEFOT LEVEL MAINTENANCE ACTION (14/ACTION)</li> <li>(r) (s) DISTRED FOR DEFOT LEVEL</li></ul>	IVI	2.00	YEAR DURING WHICH INITIAL COST DCCUR ( DIMENSIONLESS ) D		•
[4]       [3]       DESTRED MANIMA LEVEL FON OFT LEVEL MAINTEANCE PERGOMEL ( PERGOMEL/YEAR )         [2]       [3]       DESTRED MANIMA LEVEL FON OFFOT LEVEL MAINTEANCE PERGOMEL ( PERGOMEL/YEAR )         [2]       [3]       DESTRED MANIMA LEVEL FON OFFOT LEVEL MAINTEANCE PERGOMEL ( PERGOMEL/YEAR )         [2]       PERVENTISTOR MANIMA LEVEL FON OFFOT LEVEL MAINTEANCE LABOR TIME FOR MY ALMETHANCE LABOR TIME FOR MAINTEAN ( MAITEN )         [13]       D'11 LEVEL MAINTEANCE LABOR TIME FOR MY ALMETHANCE ACTION ( MAITEN )       5.00       3.00	۲	( 5) 0.00	DESTRED MANNING LEVEL FOR OPERATING PERSONNEL ( PERSONNEL/YEAR ) 0 0.00 40.00 40.00 100.00 100.00	•	•
Instruction         Instruction <thinstruction< th=""> <thinstruction< th=""></thinstruction<></thinstruction<>	5	( <u>5</u> ) 0.00	DESTRED MANNIMB LEVEL FOR O/I LEVEL MAINTENANCE PERSONNEL ( PERSONNEL/YEAR ) 0 0.00 a0.00 a0.00 100.00 100.00		•
Low         (2)         DREVENTIVE MINTENANCE LADOR THE FOR MIN MAINTENANCE ACTOM ( HE/ACTION )           LSD         15.00         15.00         15.00         5	•_	( 5) 0.00	DESTRED MANNING LEVEL FOR DEPOT LEVEL MAINTENANCE PERSONNEL ( PERSONNEL/YEAR ) 0 0.00 10.00 10.00 10.00 10.00		•
L5D       1 15)       OFFOIT MAINTERANCE LABOR THE KTH IFM ( HA/ITEM )       0.00       0.00       5.00       10.00       5.00       10.00       5.00       3.00       5.00       3.00	Ĩ	( 2) 8.00	PREVENTIVE MAINTENANCE LABOR TIME FOR NTH MAINTENANCE ACTION ( MR/ACTION ) D IS.00		•
LSI       (15)       0/1 LEVEL MAINTEMANCE LABOR THE TO REPAIR THE KTH ITEM ( HR/ITEM )       5.00       3.00	۲SD	( 15) 0.00 5.00	OFPAT MAINTENANCE LABOR TIME TO REPAIR THE KTH ITEM ( HR/ITEM ) 0 7:00 18.00 5.00 0.00 0.00 6.00 20.00 0 5:00 10.00 5.00 15.00		• •
LSO       (15)       0/1 LEVEL MAINTENANCE LABOR TIME TO REMOVE AND REPLACE THE KTM ITEM ( MAITEM )       3.00       3.	181	(15) 0.00 3.00	0/1 LEVEL MAINTENAMCE LABOR TIME TO REPAIR THE KTH 17EM ( HR/ITEM ) 0 5.00 12.00 4.00 8.00 6.00 5.00 15.00 0 3.00 7.00 3.00 11.00	3,66	• •
WPM       ( )       Material cost for NTH TYPE OF PREVENTIVE MAINTEMANCE ACTION ( S/ACTION )         50.00       150.00       150.00         MSSD       ( 5)       SHOP SPACE REQUIRED FOR DEPOT LEVEL MAINTEMANCE ( SQ. FT./YEAR )         MSSI       ( 5)       SHOP SPACE REQUIRED FOR D/1 LEVEL MAINTEMANCE ( SQ. FT./YEAR )         MSSI       ( 5)       SHOP SPACE REQUIRED FOR D/1 LEVEL MAINTEMANCE ( SQ. FT./YEAR )         MSSI       ( 5)       SHOP SPACE REQUIRED FOR D/1 LEVEL MAINTEMANCE ( SQ. FT./YEAR )         MSSI       ( 5)       SHOP SPACE REQUIRED FOR D/1 LEVEL MAINTEMANCE ( SQ. FT./YEAR )         MSSI       ( 5)       NUMARE OF EQUIPMENTS IN THE MARY'S INVENTORY SYSTEM ( EQUIP./YEAR )         M       ( 5)       NUMARE OF EQUIPMENTS IN THE MARY'S INVENTORY SYSTEM ( EQUIP./YEAR )         MC       ( 5)       NUMARE OF EQUIPMENTS IN THE MARY'S INVENTORY SYSTEM ( EQUIP./YEAR )         MC       ( 5)       NUMARE OF COPIES OF TECHNICAL DATA OF DO 100.00         MC       ( 5)       NUMARE OF COPIES OF TECHNICAL DATA OF DO 00.00         MC       25.00       0.00       0.00         MC       25.00       0.00       0.00         MC       25.00       0.00       0.00	1 SO	(15) 3.00 2.00	0/1 LEVEL MAINTENANCE LABOR TIME TO REMOVE AND REPLACE THE KTH ITEM ( HR/ITEM ) 0 2.00 1.00 2.60 4.00 3.00 3.00 3.00 3.00 0.00 0.00 0.0	2.00	•
MSD       [ 5] SHAP SPACE REQUIRED FOR DEPOT LEVEL MAINTENANCE [ 50. FT./YEAR ]         0.00       150.00       150.00       150.00         HSSI       [ 5] SHAP SPACE REQUIRED FOR D/I LEVEL MAINTENANCE [ 50. FT./YEAR ]         HSSI       [ 5] SHAP SPACE REQUIRED FOR D/I LEVEL MAINTENANCE [ 50. FT./YEAR ]         HSI       [ 5] NUMARE OF EQUIPMENTS IN THE NAVYS INVENTORY SYSTEM [ EQUIP./YEAR ]         H       [ 5] NUMARE OF EQUIPMENTS IN THE NAVYS INVENTORY SYSTEM [ EQUIP./YEAR ]         H       [ 5] NUMARE OF COPIES AF TECHNICAL DATA TO RE DISTRIBUTED AND INVENTORIED [ COPIES/YEAR ]         HC       [ 5] NUMARE OF COPIES AF TECHNICAL DATA TO RE DISTRIBUTED AND INVENTORIED [ COPIES/YEAR ]         HC       [ 5] NUMARE OF COPIES AF TECHNICAL DATA TO RE DISTRIBUTED AND INVENTORIED [ COPIES/YEAR ]         HC       [ 5] NUMARE OF COPIES AF TECHNICAL DATA YALUES FROM LFFT TO RIGHT ************************************	Nen	50.00	MATERIAL COST FOR NTM TYPE OF PREVENTIVE MAINTENANCE ACTION ( \$/ACTION ) 0 150.00		•••
WS1       (5)       SHOP SPACE REQUIRED FOR 0/1 LEVEL MAINTENANCE (SQ, FT./YEAR )         0.00       1.000.00       1.000.00       1.000.00         N       (5)       NUMBER OF EQUIPMENTS IN THE NAVYS INVENTORY SYSTEM (EQUIP./YEAR )         N       0.00       0.00       100.00         NC       (5)       NUMBER OF EQUIPMENTS IN THE NAVYS INVENTORY SYSTEM (EQUIP./YEAR )         NC       (5)       NUMBER OF EQUIPMENTS IN THE NAVYS INVENTORY SYSTEM (EQUIP./YEAR )         NC       (5)       NUMBER OF COPIES OF TECHNICAL DATA TO RE DISTRIBUTED AND INVENTORIED (COPIES/YEAR )         NC       (5)       NUMBER OF COPIES OF TECHNICAL DATA TO RE DISTRIBUTED AND INVENTORIED (COPIES/YEAR )         NC       (5)       NUMBER OF COPIES OF TECHNICAL DATA TO RE DISTRIBUTED AND INVENTORIED (COPIES/YEAR )	NSSN	( 5) 0.00	SHAP SPACE REQUIRED FOR DEPOT LEVEL MAINTEMANCE ( SQ. FT./YEAR ) 0 150.00 150.00 150.00 150.00		•
W ( 5) NUMARER OF EQUIPMENTS IN THE NAVY'S INVENTORY SYSTEM ( EQUIP./YEAR ) 0.00 0.00 no.00 100.00 100.00 100.00 WC ( 5) NUMARER OF COPIES OF TECHNICAL DATA TO RE DISTRIBUTED AND INVENTORIED ( COPIES/YEAR ) 55.00 0.00 25.00 0.00 0.00 0.00 ••••••••••••••••••••••••••••••••••	ISSW	( 5) 0.00	SHAP SPACE REQUIRED FOR 0/1 LEVEL MAINTENANCE { SQ. FT./YEAR } 0 1.000.00 1.000.00 1.000.00 1.000.00	•	•
MC ( 5) NUMMER OF COPIES OF TECHNICAL DATA TO RE DISTRIBUTED AND INVENTORIED ( COPIES/YEAR ) 0.00 25.00 0.00 0.00 0.00 0.00 0.00 •••••••••••	z	- 5) 0.00	NUMAER OF EQUIPMENTS IN THE NAVY'S INVENTORY SYSTEM ( EQUIP./YEAR ) 0 0.00 0.00 80.00 100.00 100.00		•
• • • • • • • • • • • • • • • • • • •	¥C	( 2) 0.0A	NUMMER OF COPIES NF TECHNICAL DATA TO RE DISTRIBUTEN AND INVENTORIED ( COPIES/YEAR ) n 25.00 0.00 0.00 0.00		••••••••••••••••••••••••••••••••••••••
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ناناً . ما د کاران ها کارمان ماده ماده اس مدینه کارم و در انتخاب و ۵۵ مانان ماده ماده کار این تاریخها گارا معید ا

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· · · · · · · · · · · · · · · · · · ·	6 SAMPLE COMPUTER RUN FOR NAVNAT FOUTPMENT LIFE CYCLE COST MODEL	NAMES, DESCRIPTIONS, DIMENSIONS, AND VALUES OF BUILT-IN VARIABLES	DESCRIPTION Total Number of saverage	THE REPORT OF SPARCHERAIN ITENS IN THE PRIME EQUIPHENT ( DIMENSIONLESS )	TOTAL NUMBER OF PREVENTIVE MAINTENANCE TYPES OF THE PRIME EQUIPMENT ( DIMENSIONLESS )	) PRIME EQUIPMENT AMMUAL ACCEPTANCE SCHEDULE ( EQUIP,/YEAR ) )0	PRIME EQUIPMENT OVERMAUL SCHEDULE ( EQUIP,/YEAR ) 0 0.00 0.00 0.00 0.00 0.00	MUMAER OF PAGES PER TECHNICAL MANUAL MAINTAIMED BY NAVY ( PAGES/COPY )	TIME BETWEEN INSPECTIONS OF THE PREVENTIVE MAINTENANCE ACTIONS ( MR/ACTION ) 6 600.00	PRIME EQUIPMENT PMASE OUT SCMEDULE ( EQUIP./YEAR ) 0.00 0.00 0.00 0.00 0.00 15.00	TOTAL NUMBER OF NEW NATIONAL STOCK NUMBERS TO BE ISSUED ON THE PRIME EQUIPMENT ( NSN )	TOTAL NUMBER OF NEW NATIONAL STOCK NUMBERS TO BE ISSUED ON THE PECULIAR SLTE EQUIPMENTS ( N	PRIME EQUIPMENT OVERMAUL MAINTENANCE LABOR TIME ( MAFEQUIP. )	PRIME EQUIPMENT OVERHAUL MAINTENANCE MATERIAL COST ( S/EQUIP. )	PRIME EQUIPMENT OVERMAUL MAIMTENANCE MATERIAL SMIPPIMG AATE ( S/EQUIP. )	PRIME EQUIPMENT ANNUAL OPFRATING TIME { MR/YEAR }	GOVERNMENT PROJECT MANAGEMENT COSTS INCURRED DURING INVESTMENT PERIOD   S/YEAR ) 650.000.00 270.000.60 0.00 0.00 0.00 0.00	NUMBER OF PERSONMEL REQUIRED TO OPERATE A PRIME EUUIPMENT & PERSONMEL/EQUIP. )	FLOOR SPACE REGULAED FOR THE OPERATION OF A PRIME EQUIPMENT { 50, FT./EQUIP. }	→ • • • • • • • • • • • • • • • • • • •		
	11/1/11	_		15	N	1 5 0 4 0	( 2) 0.0	200.0	100.0	- 2	75.01	357.64	120.00	1.500.00	500,00	] . 600 <b>. 6</b> 0	( <u>5</u> ) 0.00	1.00	50,69	•		
	- <b>-</b>	- ¥				2	₹	4	Ĩ	2	an s	SNS	ų.	I	►		œ		50	•		

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			-				2.00	350,60								
	l s		AR )	-		~	1.00	99.09								
	YCLE COST MOO T-IN VARIABLE	ERIOD I S/YE	ERION ( S/YE	STUDENT/YEAA	T/YEAR )	( STUDENT/YEA	2.00	690.60	- 0		-	EH ( 8/NSN )	NSN/S ) 150			
	UIPMENT LIFE C Values of Buil	E INVESTMENT P	E JNVESTMENT P	L TPAINING (	NING ( STUDEN	IAL TRAINING	TY/ITEM ) 1,00	( MR/ITEM ) 400.00	N RATE ( RATI	ATTO )	( S/PAGE/YEAR	HE SUPPLY SYST	MINISTRATION C	ATOR )		
	FOR NAVMAT FQ Ensions, ann om	RED DURING TH	RED DURING TH 0.00 Tailing	ECEIVE INTTA	INITIAL TRA	RECEIVE INT 0.00	TEM ( QUANTI 6.00 1.00	REPAIR ITEM 250.00 1.500.00	NNEL ATTRITIO	JON RATE ( R	MA ] NTENANCE	Y COST INTO T	AND FIELD AD	L S/MR/OPER		
	COMPUTER RUN Sriptions, Div Descripti	ES COST INCUR	N COSTS [NCUF 0.00	ERSONNEL TO F	NEL TO RECEIVE 20.00	PERSONNEL TO	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OF THE SPARE/ 600.00 1.200.00	ITENANCE PERSC	SONNEL ATTRI	OST FOR FILE	JER (NSN) ENTR	TEM RETENTION	URLY PAY RATE	8. 1	\$/LB. )
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SAMPLE COMPUTER RUN FOR NAVNAT EQUIPMENT LIFE CYCLE COST MODEL

JIPHENT LIFE CYCLE	CATEGORY CATEGORY	ING TYPE	1 0 T M 1
COMPUTER RUN FOR NAVMAT EQU	FUNDING VS. COST		PROCURFNENT I CONSTRUCTION
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č J	F FUNNING TYPE TOTAL	0.0	0.0	53.2	6.0		56.3	0.0	17.1
HAINT.	FILLE			2.523.940	13.658.724	9.644.5 1			18.625.647
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¢ i	F FUNDING TYPE TOTAL	0.0	0.0	0-1+	6.69		39.0	0	.04
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E 11/ 1/76 SAMPLE COMPUTER RUN FOR NAVMAT F	COSTS IN DOLLARS SSS	NST ANDOWN Ucture Maer cost breakdown structure element	0000 TDTAL LIFE CYCLE 4,	10000 RESEARCH AND DEVELOPMENT 0000 Validation	I 960 CONTRACTOR 2060 GOVERNMENT	10000 FULL SCALE DEVELOPMENT 11 AAA CONTRACTOR	FIZOO FNGINERIMO 1300 PRJTYPE MARDWARE	21400 SAFTWARF. Veran yest e suullattav.	PTOO SUPPORT & TEST EQUIPMENT Prodo Government	22100 PROGRAM MANAGEMENT Dontoiver fest a evaluation		2230 TEST & EVALUATION	10000 INVESTMENT Dong angemment dongram managment	1700 PRODUCTION SUPPORT & SERVICES	23000 PRANDICTION TEST & EVALUATION	5000 INSTALLATION & CHECKOUT	10000 INITIAL SUPPORT ACHUISTIUN 1000 Support & TEST EQUIPMENT ACQUISITION	IZ000 SUPPLY SUPPORT	12110 PHIME EQUIPMENT	12120 SUPPORT & TEST EQUIPMENT	J2200 FACILITIES UPPLT STSTEM 13000 FACILITIES	13200 Hander	NANA DOCHMENTATION	NA 100 A COUTSTION N200 REPRODUCTION AND DISTRIBUTION	15000 TPATNING	ISING OPERATOR 15200 D/I LEVEL MAINTENANCE	

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	047E 11/ 1/76	<b>113 LUSTS IN DOL</b>	COST BREAKDOWN STRUCTURE MILLARE	001352	235400	30000 OPER 310000 OPER	311000	313000	314000 315000	320000 SU 321000	321100	321120	321200	016156 016156	02132	32700	322100	323000	001626 32200	005555	325464	325100	325120	325200	32521A 325220	324.00	327100	327200	327100 327100	000000 0000000 00000000000000000000000	

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IN DOLLAR	SAMPLE COMPUTER RUN F	OR NAVMAT FOULPHENT LI	FE CYCLE COST HODEL		PAGE 10.001
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	T BREAKDOWN STRUCTURE ELEMENT	TOTAL ADJUSTED < COST <	FERCENTS	OF TOTAL ADJUS 1 TOTAL LIFE CY	760 COST> >
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Constraint     Constraint <th>Alternational and the state of the state</th> <th>Alter in the state in the s</th> <th>1 111 1</th> <th>716 - SAMPLE COMPUTER RUN</th> <th>FOR NAVMAT FOULPMENT</th> <th>LIFE CYCLE COST MODEL</th> <th>PAGE 10.002</th>	Alternational and the state of the state	Alter in the state in the s	1 111 1	716 - SAMPLE COMPUTER RUN	FOR NAVMAT FOULPMENT	LIFE CYCLE COST MODEL	PAGE 10.002
ATTAL     TATAL	Mitty         Mitty <th< th=""><th>Ministry     Ministry       Corr     Macanona synchrafter (regen       Martine     Martine       Martine</th><th>COSTS</th><th>IN DOLLARS <b>555</b></th><th>COST BREAKDOWN TOTALS</th><th>********</th><th>+CONSTANT DOLLARS****</th></th<>	Ministry     Ministry       Corr     Macanona synchrafter (regen       Martine     Martine       Martine	COSTS	IN DOLLARS <b>555</b>	COST BREAKDOWN TOTALS	********	+CONSTANT DOLLARS****
Mark Level     Mark Level     1000     000       Mark Level     Mark Level     1000     1000       Mark Level     Mark Level     1000 <td>Market Market Market</td> <td>New Letter         New Letter         New Letter           Marking Marking</td> <td>ST KDAN KTUPE DEB</td> <td>COST BREAKDOWN STRUCTURE ELEMENT</td> <td>ToTaL ADJUSTED COST</td> <td><pre>&lt;</pre></td> <td>TOTAL ADJUSTED COST&gt;</td>	Market	New Letter         New Letter         New Letter           Marking	ST KDAN KTUPE DEB	COST BREAKDOWN STRUCTURE ELEMENT	ToTaL ADJUSTED COST	<pre>&lt;</pre>	TOTAL ADJUSTED COST>
OFFARTING MAD SUPPORT         Support </td <td>OFFAILING AND AUTORNEL         Defaultion and the autornel account acc</td> <td>Manual and state and st</td> <td>800 800 900</td> <td>NFPNT LEVEL MAINTEMANCE 1457auctor training aids</td> <td>17.040 15.000 50.000</td> <td>0.00</td> <td></td>	OFFAILING AND AUTORNEL         Defaultion and the autornel account acc	Manual and state and st	800 800 900	NFPNT LEVEL MAINTEMANCE 1457auctor training aids	17.040 15.000 50.000	0.00	
0000         000000000000000000000000000000000000	Description second contrast Constraint softwart soft	Operation         Operation <t< td=""><td>000</td><td>OPERATING AND SUPPORT</td><td>30,881,107</td><td></td><td>60°</td></t<>	000	OPERATING AND SUPPORT	30,881,107		60°
Constraint         Constra	Tester Internation     Tester Internation       Second Tool     Tester Internation       Second	Constraint         Constraint         Constraint         Constraint         Constraint           Straint         Constraint         Constraint         Constraint         Constraint         Constraint           Straint         Constraint         Con	000	OPERATION Decontres	8.050.760		17.3
Current Concumulation     000000     000000     000000       Signary Signary Constraint Millitenacc     2300000     2300000     000       Signary Signary Constraint Millitenacc     2300000     2300000     000       Constraint Millitenacc     2300000     2300000     000       Constraint Millitenacc     2300000     2300000     000       Constraint Millitenacc     2300000     100     000       Constraint Millitenacc     2300000     100     000       Constraint Millitenacc     2300000     100     000       Constraint Millitenacc     23000000     000     000       Constraint Millitenacc     23000000     000     000       Constraint Millitenacc     23000000     000     000       Martinia     Martinia     000000     000       Martinia     000000     000     000       Martinia     00000     000     000	ATTENT CONCENTION     000000000000000000000000000000000000	Resolve Long         Resolve Long<		FACILITIES	800.07C1E		2.5
Operation         State	ATTARK LANDON         27:000         0:5           ATTARK LANDON         27:000         2:7           ATTARK         27:000         2:7           ATT	Constraint         Constraint <thconstraint< th="">         Constraint         Constrai</thconstraint<>	000	ENFAGY CONSUMPTION	894.000		6.1
Sector         Sector<	Support Sup	Summer         Summer<	000	MATERIAL CONSUMPTION SOFTWARE MAINTENAMEE	224+000		• • • •
CONSECTIVE MAINTERAME         Transmittant         Transmittant <thtransmittant< th="">         Transmittant         Trans</thtransmittant<>	Constraint         Transmert         Transmert <thtransmert< th=""> <thtransmert< th=""> <th< td=""><td>11     Crossing (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4</td><td></td><td>SUPPORT TATATATATA</td><td>746.418.55</td><td></td><td></td></th<></thtransmert<></thtransmert<>	11     Crossing (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		SUPPORT TATATATATA	746.418.55		
1/1000         1/10000         1/10000         1/100	1         1         1         5         5           1         1         1         1         1         5           1         1         1         1         1         5           1         1         1         1         1         5           1         1         1         1         1         1         5           1         1         1         1         1         1         1         1           1	1         0.000 (1 LYML, IREA/18)         2.000.000 (1 ZYML, ISPAC, INCOLORIDA         2.000.000 (1 ZYML, INTRAMCC         2.000.000 (2 ZYML, INTRAMCC<	000	COPRECTIVE MAINTENANCE	13+670-290		29.4
O. I. L'EVEL (MEZATA)         D. I. L'EVEL (MEZATA)         D. I. L'EVEL (MEZATA)           0. 1. L'EVEL (MEZATA)         MANDER (MEZATA)         1.272000         2.172000           1. PASSOCIATIA MADLING LADGRA         MANDER (MEZATA)         1.272000         2.172000           2. PASSOCIATIA MADLING LADGRA         MANDER (MEZATA)         1.272000         1.2           2. PASSOCIATIA MADLING LADGRA         2.172000         2.172000         1.1           2. MERIAL         1.0000         2.172000         1.1           2. MIDPING LADGRA         2.172000         2.12         1.1           2. MIDPING LADGRA         2.172000         2.10         1.1           2. MIDPING LADGRA         2.172000         2.1         2.1           2. MIDPING LADGRA         2.1000         2.1         2.1           2. MIDPING LADGRA         2.10000         2.1         2.1	CVI LUCIC (REALE)     1,27200     1,27200       CVI LUCIC (REALE)     537031     1,2       Real with Luch     257031     1,3       Real with Luch     257031       Real with Real with Luch     <	0.1 Civic description         1.272000         1.272000           0.1 Civic description         1.272000         1.272000           0.1 Civic description         1.272000         1.272000           0.2 Civic description         1.220000         1.220000           0.2 Civic description         1.220000         1.20000           0.2 Civic description         1.220000         1.20000           0.2 Civic description         1.220000         1.200000           0.2 Civic description         1.220000         1.200000           0.2 Civic description         1.200000         1.200000           0.2 Civic description         1.2000	041	LAROM A/I LEVEL AREMOVE L REPLACEL	2,608,816 Ana.824	1.7 5.6	
100         FFATL         535597         1.2           101         FFATLA         535597         1.2           101         FATLAL MADDING LADAR         5555055         1.1           101         FATLAL MADDING LADAR         5550557         1.2           101         FATLAL MADDING LADAR         557057         1.2           101         FATLAL MADDING LADAR         557057         1.3           101         FATLAL MADDING LADAR         757057         1.4           101         706.255         7.6         7.6           101         706.255         7.6         7.6           101         706.255         7.6         7.6           101         706.255         7.6         7.6           101         706.255         7.6         7.6           101         706.255         7.6         7.6           101         7.6         7.6         7.6         7.6           101         7.6         7.6         7.6         7.6           102         7.6         7.6         7.6         7.6           103         7.6         7.6         7.6         7.6           101         7.6         7.6	Discrete         Control         Second Statut	Definition         CENT	120	0/1 LEVEL (REPAIR)	1.272.049		
100     Taxistoria Irina and Packacing     1,220,001       101     Packacing Autoria     1,220,001       101     Packacing Autoria     1,220,001       101     Packacing Autoria     1,020,001       101     Packacing Autoria     1,020,001       101     Packacing Autoria     1,020,001       101     Packacing Autoria     1,020,001       101     1,000     1,000       101     1,000     1,000       101     1,000     1,000       101     1,000     1,000       101     1,000     1,000       101     1,000     1,000       101     1,000     1,000       101     1,000     1,000       101     1,000     0,11       101     1,000     0,11       101     1,000     0,11       101     1,000     0,11       101     1,000     0,11       101     1,000     0,11       101     1,000     0,11       101     1,000     0,11       101     1,000     0,11       101     1,000     0,11       101     1,000     0,11       101     1,000     0,11       101     1,000 <td>Travisorentifind and packading     Travisorentifind and packading     Travisorentifind and packading       Travisorentifind and packading     Travisorentifind and packading     Travisorentifind and packading       Travisorentified     Travisorentified and     Travisorentified and       Travisorentified and     Travisorentified and     Travisorentified and</td> <td>In Addition and Paccoding     In Addition and Paccoding     In Addition and Paccoding       In Addition and Paccoding     In Addition and Paccoding     In Addition and Paccoding       In Addition Addition and Paccoding     In Addition and Paccoding     In Addition and Paccoding       In Addition A</td> <td>000</td> <td>NEPNT LEVEL (REPATR) Depair Materiai</td> <td>535,937</td> <td>1.2</td> <td></td>	Travisorentifind and packading     Travisorentifind and packading     Travisorentifind and packading       Travisorentifind and packading     Travisorentifind and packading     Travisorentifind and packading       Travisorentified     Travisorentified and     Travisorentified and       Travisorentified and     Travisorentified and     Travisorentified and	In Addition and Paccoding     In Addition and Paccoding     In Addition and Paccoding       In Addition and Paccoding     In Addition and Paccoding     In Addition and Paccoding       In Addition Addition and Paccoding     In Addition and Paccoding     In Addition and Paccoding       In Addition A	000	NEPNT LEVEL (REPATR) Depair Materiai	535,937	1.2	
310     PATERIAL     2,773,590     5,0       320     PATERIAL     1,00,507     3,00,507     3,00       320     PATERIAL     36,507     3,00     3,00,507     3,00       320     PATERIAL     36,507     3,00     3,00     3,00     3,00       320     VARPAUL     336,507     3,00     3,00     3,00     3,00     3,00       320     VARPAUL     336,500     3,00	310         MATCRIAL MANDLING LABOR         2:773-790         5:0           311         MATCRIAL MANDLING LABOR         2:773-790         5:0           311         Schlering MATRIAL         3:30:557         3:0           311         3:30:507         3:0         3:0           311         3:30:507         3:0         3:0           311         3:0         3:0         3:0           311         3:0         3:0         3:0           311         3:0         3:0         3:0           311         3:0         3:0         3:0           311         3:0         3:0         3:0           311         1:0         3:0         1:0           312         1:0         1:0         1:0           312         1:0         1:0         1:0           312         1:0         1:0         1:0           313         1:0         1:0         1:0           312         1:0	310     PATERIAL MANDLING LABOR     2,773,550     0,0       311     PATERIAL MANDLING LABOR     3,00,577     3,00,577       311     PATERIAL MANDLING LABOR     3,00,577     3,00,577       311     PATERIAL LANDLING LABOR     3,00,577     3,00       311     PATERIAL LANDLING LABOR     3,00,577     3,00       311     PATERIAL LANDLING LABOR     3,00,577     3,00       311     PATERIAL LANDLING LADOR     3,00,577     3,00       311     1,000     1,00     0,1       311     1,531     1,5317     0,1       311     1,5317     1,5317     0,1       311     1,5317     1,5317     0,1       311     1,5317     1,5317     0,1       311     1,5317     1,5317     0,1       311     1,5317     1,5317     0,1       311     1,541     1,5317     0,1       312     1,541     1,5317     0,1       313     1,542     1,5317     0,1       314     1,542     1,5326     0,1       315     1,542     1,5526     0,1       316     1,542     1,5526     0,1       311     1,542     1,5526       311     1,542     1,	005	TRANSPOGTATION AND PACKAGING	4.520.951		
33.0     SHIPPING     9.0.567     9.0       1000     PARENTIX     370.567     9.0       1000     LAROR     1.400     370.200     0.7       1000     OVENATEL     370.200     0.7     0.7       1000     OVENATEL     370.200     0.7     0.7       1100     OVENATEL     375.000     0.7     0.7       1100     OVENATEL     375.000     0.7     0.7       1100     TAFFIC     165.317     0.1     0.7       1100     TAFFIC     172.000     0.1     0.7       1110     TAFFIC     165.317     0.1     0.1       1110     TAFFIC     165.317     0.1     0.1       1111     TAFFIC     1600.000     2.1     0.1       1111     TAFFIC     164.000     2.1     0.1       1111     TAFFIC     164.000     2.1       1111	33.     Perform     30.557     9.8       000     HERITAL     30.557     9.8       1.400     1.400     0.7     1.6       1.400     NATERIAL     375.000     0.7       0.1400     NATERIAL     375.000     0.7       0.1400     NATERIAL     375.000     0.7       0.1400     NATERIAL     375.000     0.7       0.1400     NATERIAL     375.000     0.1       0.1400     NATERIAL     375.000     0.1       0.1400     NATERIAL     375.000     0.1       0.1400     NATERIAL     100.000     0.1       0.1400     NUMENTARY     170000     0.1       0.1400     NUMENTARY     170000     0.1       0.11 LEVEL     NUMENTARY     0.1000     2.1       0.11 LEVEL     NUMENTARY     0.1000     2.1       0.11 LEVEL     NUMENTARY     0.1000     2.1       0.11 LEVEL     NUMENTARY     1.17000       0.11 LEVEL     NUMENTARY	333     Schlerkei     360:567     9.8       333     Service     300:567     9.8       1000     Uranda     370:200     0.1       1000     Uranda     370:200     0.1       1000     Uranda     1000     0.1       1000     Uranda     1000     0.1       1000     Uranda     1000     0.1       1000     Uranda     1000000     0.1       1000     Uranda     1000000     0.1       1000     Uranda     1000000     0.1       1000     Uranda     1000000     0.1       1000     Uranda     0.1     0.1       11115     Uranda     0.1     0.1       111115     Uranda     0.1     0.1       111115     Uranda     0.1     0.1       111115     Uranda     0.1     0.1       1111115     Uranda     0.1	910 920	MATEWIAL MANDLING LAUOR Packaging Material	2•773•590 1•386•795	00	
000     MATERIAL     706.205     0.7     1.5       000     0.47681AL     336.000     0.7     0.7       000     17445001     175.000     0.1     0.1       000     54010     175.000     0.1     0.1       000     54010     175.000     0.1     0.1       000     54010     175.000     0.1     0.1       000     54010     17400     0.1     1.1       000     54010     2.1     0.1     0.1       001     12010     2.1     0.0     2.1       001     12010     2.1     0.0     0.0       001     12010     2.1     0.0     0.0       001     12010     2.1     0.0     0.0       001     12010     2.1     0.0     0.0       001     12010     2.1     0.0     0.0       001     12010     2.1     0.0       001     12010     0.0<	1.4 MOR	0000     14000     14000     14000     14000       0000     44000     44000     14000     14000       0000     44000     14000     14000     14000       0000     14000     155111     125000     11       0000     14000     155110     120000     11       0000     14000     155110     120000     11       0000     11     155110     10000     11       0000     11     151100     10000     11       1000     11     11     10000     11       1000     11     11     10000     11       1000     11     11     10000     11       1000     11     10000     11     11       1000     11     10000     11     11       1000     10000     20     20     20       1000     10000     20     20     20       1000     10000     20     20     20       1000     10000     20     20     20       1000     10000     20     20     20       1000     10000     20     20     20       1000     10000     20     20     2	466	SHIPPING	360.567	8.6	
200     WATERIAL     335.000     0.7       201     UVENAUL     325.312     0.7       201     LAROR     155.000     0.1       201     VERMAL     120.000     0.1       201     SUO SPACE     100000     0.1       201     SUO SPACE     100000     2.1       201     SUO SPACE     0.60000     2.1       201     VERTURE     0.60000     2.1       201     VERTURE     0.00000     2.1       201     VERTURE     0.00000     2.1       201     VERTURE     0.00000     2.1       202     VERTURE     0.00000     2.1       203     VERTURE     0.00000     0.0       204     VERTURE     0.00000     0.0       205     0.00000     0.0     2.1       205     0.00000     0.0     2.1       205     0.00000     0.0     2.1       205     0.000000000	200     WATERIAL     333,000     0.7     0.7       000     LAPDAUL     324,312     0.4       1.4707     LAPDA     1.5000     0.1       0.00     TAMSORIATION     1.20000     0.1       0.00     SUPPORT LEST EQUIPMENT MAINTENANCE     1.40000     0.1       0.00     SUPPORT LEVEL     1.4000     0.1       0.01     TACLUTES     1.4000     0.0       0.01     TACLUTES     1.4000     0.0       0.01     TACLUTES     1.4000     0.0       0.01     TACLUTES     1.400	000     0.44141.4     333,000     0.7       010     0.784141.4     333,000     0.7       010     0.784114.4     325,112     0.6       010     1475114.1     120,000     0.1       010     1475114.1     120,000     0.1       010     1475114.1     160,000     0.1       010     011 1475.5     11,40000     0.1       011     011 1476.5     040,000     2.1       011     011 1476.5     040,000     2.1       011     011 1476.5     040,000     2.1       011     011 1476.5     040,000     2.1       011     011 1476.5     040,000     2.1       011     011 1476.5     040,000     2.1       011     011 1476.5     040,000     2.1       011     011 1476.5     040,000     2.1       011     011 1476.5     040,000     2.1       011     011 1476.5     040,000     0.0       011     011 1476.5     040,000     0.0       011     011 1476.5     040,000     0.0       011     011 1476.5     040,000     0.0       011     011 1476.5     040,000     0.0       011     010     0.0	000	PREVENITYE MAINTENANCE Labor	370,205	8.0	
0.00     0.4000     0.4     0.4       0.00     475914     15515000     0.1       0.00     54000     15315000     0.1       0.00     54000     0.1     0.1       0.00     54000     0.1     0.1       0.00     54000     0.1     0.1       0.00     54000     0.1     0.1       0.00     0.1     1.000     0.1       0.00     0.1     1.000     0.1       0.00     0.1     1.000     0.1       0.1     1.000     0.1     0.1       0.1     0.1     0.1     0.1       0.1     0.1     0.1     0.1       0.1     0.1     0.1     0.1       0.1     0.1     0.1     0.0       0.1     0.1     0.0     0.1       0.1     0.1     0.0     0.0       0.1     0.1     0.0     0.0       0.1     0.1     0.0     0.0       0.1     0.0     0.0     0.0       0.1     0.0     0.0     0.0       0.1     0.0     0.0     0.0       0.1     0.0     0.0     0.0       0.1     0.0     0.0     0.0	0.0000     LADR     557-312     577-312     577-312       0.000     FACTUTTES     120.000     13.0       0.000     SUPPRESTATION     120.000     1.1       0.000     SUPERSTATION     100000     2.1       0.000     SUPERSTATION     1.0000     2.1       0.000     SUPERSTATION     1.0000     2.1       0.000     SUPERSTATION     1.0000     2.1       0.011     LEVEL     960.000     2.1       0.011     LEVEL     960.000     2.1       0.011     LEVEL     960.000     2.1       0.011     LEVEL     0.000     2.1       0.011     LEVEL     0.000     2.1       0.011     LEVEL     0.0000     0.0       0.011     LEVEL     0.0000       0.011     LEVEL     0.0000       0.011     LEVEL     0.0000       0.011     0.0	1     1 <td>200</td> <td>MATERIAL</td> <td>334+000</td> <td>0.7</td> <td>1</td>	200	MATERIAL	334+000	0.7	1
200     HATERIAL     120.000     0.3       300     TEAMSPORTATION     1551 EQUIPMENT HAINTENNCE     1.00000     0.1       300     SUPPORT 1 ESE     1.00000     0.1     3.0       300     SUPPORT 1 ESE     0.0000     0.1     3.0       110     N/1 LEVEL     0.1     0.0     1.1       110     N/1 LEVEL     0.0000     2.1     4.1       110     N/1 LEVEL     0.0000     2.1     4.1       110     N/1 LEVEL     0.0000     2.1     4.1       111     N/1 LEVEL     0.0000     2.1     4.1       111     N/1 LEVEL     0.0000     2.1     4.1       111     N/1 LEVEL     0.0000     2.1     2.1       111     0.1 LEVEL     0.0000     2.1     0.0       111     0.1 LEVEL     0.0000     2.1     0.0       111     0.1 LEVEL     0.0000     2.1     0.0       111     0.1 LEVEL     0.0000     0.0     0.0       111     0.1 LEVEL     0.0000 <td>200     MATFRIAL     120.000     0.3       200     SUPPORT LEVEL     1.000000     0.1       200     SUPPORT LEVEL     1.000000     2.1       200     SUPPORT LEVEL     1.000000     2.1       200     SUPPORT LEVEL     1.000000     2.1       110     D/1 LEVEL     961:440     2.1       200     SUPPORT LEVEL     1.000000     2.1       200     DFOIT LEVEL     961:440     2.1       201     DFOIT LEVEL     962:4400     2.1       201     DFOIT LEVEL     962:4400     2.1       201     DFOIT LEVEL     9.0     2.1       201     DFOIT LEVEL     9.0     0.0       202     DOCIMENTATION MAINTENANCE     172:400     0.0       203     SUPPLY SUPPORT     9.0     0.0       204     DFOIT LEVEL     9.0     0.0       205     0.0     0.0     0.0       206     0.0     0.0     0.0       207     0.0     0.0     0.0       208     0.0     0.0</td> <td>200     MATFRIAL     1200000     MATFRIAL       200     SUPERIAL     1251     120000       300     SUPERIAL     1251     1100       300     SUPERIAL     120000     111       300     SUPERIAL     1100     310       300     SUPERIAL     91000     21       300     NOT LEVEL     91000     21       301     NEPOT LEVEL     91000     21       301     NEPOT LEVEL     91000     21       302     NOT LEVEL     91000     21       301     NOT LEVEL     91000     21       302     NOT LEVEL     91000     21       301     NOT LEVEL     91000     21       301     NOT LEVEL     91000     21       302     NOT LEVEL     1</td> <td>000</td> <td>LABOR LABOR</td> <td>315.25L 315.312</td> <td>4.0</td> <td></td>	200     MATFRIAL     120.000     0.3       200     SUPPORT LEVEL     1.000000     0.1       200     SUPPORT LEVEL     1.000000     2.1       200     SUPPORT LEVEL     1.000000     2.1       200     SUPPORT LEVEL     1.000000     2.1       110     D/1 LEVEL     961:440     2.1       200     SUPPORT LEVEL     1.000000     2.1       200     DFOIT LEVEL     961:440     2.1       201     DFOIT LEVEL     962:4400     2.1       201     DFOIT LEVEL     962:4400     2.1       201     DFOIT LEVEL     9.0     2.1       201     DFOIT LEVEL     9.0     0.0       202     DOCIMENTATION MAINTENANCE     172:400     0.0       203     SUPPLY SUPPORT     9.0     0.0       204     DFOIT LEVEL     9.0     0.0       205     0.0     0.0     0.0       206     0.0     0.0     0.0       207     0.0     0.0     0.0       208     0.0     0.0	200     MATFRIAL     1200000     MATFRIAL       200     SUPERIAL     1251     120000       300     SUPERIAL     1251     1100       300     SUPERIAL     120000     111       300     SUPERIAL     1100     310       300     SUPERIAL     91000     21       300     NOT LEVEL     91000     21       301     NEPOT LEVEL     91000     21       301     NEPOT LEVEL     91000     21       302     NOT LEVEL     91000     21       301     NOT LEVEL     91000     21       302     NOT LEVEL     91000     21       301     NOT LEVEL     91000     21       301     NOT LEVEL     91000     21       302     NOT LEVEL     1	000	LABOR LABOR	315.25L 315.312	4.0	
000     SUPPARSPORTATION     0.1       000     SHOP SPACE     0.1       011     CFUIT LEVEL     0.0       020     C/1 LEVEL     0.0       021     C/2 LEVEL	000     500     0.1     0.1       011     LEVE     0.1     0.1       010     5400     5400     2.1       010     5400     5400     2.1       010     5400     5400     2.1       010     5400     5400     2.1       110     0.1     1.000     2.1       110     0.1     1.000     2.1       120     0.1     1.000     2.1       120     0.1     1.000     2.1       120     0.1     1.1     2.1       121     0.1     1.1     2.1       121     0.1     1.1     2.1       122     0.1     0.1     2.1       121     0.1     1.1     2.1       122     0.1     0.1     2.1       122     0.1     0.1     2.1       122     0.1     0.1     2.1       122     0.1     0.1     2.1       122     0.1     0.1     2.1       122     0.1     0.0     2.1       122     0.1     0.0     0.0       122     0.0     0.0     0.0       123     0.0     0.0     0.0       124     0.0	000     SUPPORTUNE     0.0     0.1       010     SUPPORTUNE     0.0     0.1       010     FACILITIES     0.0     0.1       010     SUP SPACE     0.0     0.1       010     SUP SPACE     0.0     0.1       010     SUP SPACE     0.0     0.1       011     LVEL     0.0     0.1       012     UNENTORY STORAGE     0.0     0.1       013     UNENTORY STORAGE     0.0     0.1       014     LVEL     0.0     0.1       014     UNENTORY STORAGE     0.0     0.1       015     0.1     0.1     0.1       016     0.1     0.1     0.1       017     UNENTIANCE     0.1     0.1       018     UNENTIANCE     0.1     0.1       019     0.1     0.1     0.1       010     0.1     <	000	MATERIAL	120.000		
000     FACILITIES     1:923.000     FACILITIES       110     0.1 LEVEL     961.440     2.1       1220     0.1 LEVEL     963.440     2.1       1220     0.1 LEVEL     963.400     2.1       210     0.1 LEVEL     2.1     9.1       221     0.1 LEVEL     2.1     9.1       221     0.1 LEVEL     2.1     2.1       221     0.1 LEVEL     2.1     9.5       221     0.1 LEVEL     2.1     2.1       221     0.1 LEVEL     2.1     2.1       221     0.1 LEVEL     2.1     2.1       222     000.000     2.1     2.1       223     001.004     2.1     2.1       224     0.0000     2.1     2.1       2200.0010     1.1 LEVEL     2.1     2.1       2200     0.1 LEVEL     1.17.000     0.0       2300     0.1 LEVEL     1.17.000     0.1       2300     0.1 LEVEL     0.1     0.1       24.000     0.1 LEVEL     0.1     0.1       24.000	000     FACILITIES     1:923:040     5:1.923:040       110     0.1 LEVEL     961:440     2:1     4.1       1220     0.1 LEVEL     961:440     2:1     2.1       1220     1.000 SHACE     961:440     2:1     2.1       1220     1.000 SHACE     962:440     2.1     2.1       1220     1.01 LEVEL     960:000     2.1     2.1       1221     0.1 LEVEL     960:000     2.1     2.1       1221     0.1 LEVEL     960:000     2.1     2.1       1221     0.1 LEVEL     2.1     9.0     0.0       1221     0.1 LEVEL     2.1     0.0     0.0       1221     0.1 LEVEL     2.1     0.0     0.0       1221     0.1 LEVEL     2.1     0.0     0.0       100     1.1 LEVEL     2.1     0.0     0.0       100     1.1 LEVEL     1.172.000     0.1     0.1       100     0.1 LEVEL     1.172.000     0.1     0.1       100     0.1 LEVEL     1.173.000     0.1     0.1       100     0.1 LEVEL     0.1 LEVEL     0.1     0.1       100     0.1 LEVEL     0.1 LEVEL     0.1     0.1       1172.000     0.1     0.1	000     FACILITIES     1:023:000     54:000     2:1     1:0       1100     0.1     UVENTORY     0:000     2:1     1:0       1200     0.0     1:000     0:0     2:1     1:0       1200     0.0     1:000     0:0     2:1     1:0       1200     0.0     1:000     0:0     0:0     2:1       1200     0.0     1:000     0:0     0:0     0:0       1200     0.0     0.0     0:0     0:0     0:0       1200     0.0     0.0     0:0     0:0     0:0       1200     0.0     0.0     0:0     0:0     0:0       1200     0.0     0.0     0:0     0:0     0:0       1200     0.0     0.0     0:0     0:0     0:0       1200     0.0     0.0     0:0     0:0     0:0       1200     0.0     0.0     0:0     0:0     0:0       1200     0.0     0.0     0:0     0:0     0:0       1201     0.0     0.0     0:0     0:0     0:0       1201     0.0     0.0     0:0     0:0     0:0       1201     0.0     0.0     0:0     0:0     0:0		ITAMPORTATION Support & TEST EQUIPMENT MAINTENANCE	40.000		3.0
100     540° SPACE     961.440     2.1       110     0.1 LEVEL     640.000     2.1       120     0.1 LEVEL     1.440     0.0       120     0.1 LEVEL     0.40.000     2.1       120     0.1 LEVEL     0.40.000     2.1       120     0.1 LEVEL     0.40.000     2.1       210     0.1 LEVEL     0.40.000     2.1       220     0.1 LEVEL     2.400     0.0       221     0.1 LEVEL     2.400     0.0       221     0.1 LEVEL     2.1     0.0       221     0.1 LEVEL     2.1     0.0       221     0.1 LEVEL     2.1     0.0       221     0.1 LEVEL     0.0     0.0       221     0.1 LEVEL     0.0     0.0       221     0.0     0.0     0.0       221     112.2800     0.0     0.0       221     117.2800     0.0     0.0       221     117.2800     0.0     0.0       221     117.2800     0.0     0.0       221     117.2800     0.0     0.0       23101     0.0     0.0     0.0       24101     0.0     0.0     0.0       24101     0.0     0.0     0.	100         5400 SPACE         961440         2.1           110         071 LEVEL         9604000         2.1           120         NEVENTGAY STARAGE         9604000         2.1           110         NEVENTGAY STARAGE         9604000         2.1           111         NEVENTGAY STARAGE         9624000         2.1           111         NEVENTGAY STARAGE         9624000         2.1           111         071 LEVEL         2.1         9.1440           111         071 LEVEL         2.1         2.1           111         0.1         2.1         2.1           111         0.1         2.1         2.1           111         1.1         2.1         2.1           111         2.1         2.1         2.1           111         2.1         2.1         2.1           111         2.1         2.1         2.1           111         2.1         2.1         2.1           111         2.1         2.1         2.1           111         2.1         2.1         2.1           111         2.1         2.1         2.1           111         2.1         2.1 <td< td=""><td>100     5400 SPACE     961.440     2.1       110     0.1 LEVEL     0.1 LEVEL     5.1       200     0.1 LEVEL     0.00000     2.1       210     0.1 LEVEL     0.00000     2.1       211     0.1 LEVEL     0.0     2.1       212     0.1 LEVEL     0.0     2.1       213     0.1 LEVEL     0.0     2.1       214     0.1 LEVEL     0.0     2.1       215     0.1 LEVEL     0.00000     2.1       210     0.1 LEVEL     0.00000     2.1       211     0.1 SUPPLY     0.00000     2.1       212     0.000000     2.1     0.0       213     0.000000     2.1     0.0       214     0.00000     0.0     0.0       215     0.00000     0.0     0.0       216     0.00000     0.0     0.0       217     0.00000     0.0     0.0       218     0.00000     0.0     0.0       219     0.00000     0.0     0.0       210     0.00000     0.0     0.0       210     0.0     0.0     0.0       210     0.0     0.0     0.0       210     0.0     0.0     0.0</td><td>000</td><td>FACILITIES</td><td>040+626+1</td><td></td><td>4.1</td></td<>	100     5400 SPACE     961.440     2.1       110     0.1 LEVEL     0.1 LEVEL     5.1       200     0.1 LEVEL     0.00000     2.1       210     0.1 LEVEL     0.00000     2.1       211     0.1 LEVEL     0.0     2.1       212     0.1 LEVEL     0.0     2.1       213     0.1 LEVEL     0.0     2.1       214     0.1 LEVEL     0.0     2.1       215     0.1 LEVEL     0.00000     2.1       210     0.1 LEVEL     0.00000     2.1       211     0.1 SUPPLY     0.00000     2.1       212     0.000000     2.1     0.0       213     0.000000     2.1     0.0       214     0.00000     0.0     0.0       215     0.00000     0.0     0.0       216     0.00000     0.0     0.0       217     0.00000     0.0     0.0       218     0.00000     0.0     0.0       219     0.00000     0.0     0.0       210     0.00000     0.0     0.0       210     0.0     0.0     0.0       210     0.0     0.0     0.0       210     0.0     0.0     0.0	000	FACILITIES	040+626+1		4.1
120     DEPT LEVEL     1.440     0.0       210     DFDT LEVEL     1.440     0.0       210     DFDT LEVEL     0.0     0.1       210     DFDT LEVEL     0.0     0.0       210     DFDT LEVEL     0.000     0.0       210     SUPPLY SUPPORT     0.0     0.0       210     SUPPLY SUPPORT     0.0     0.0       210     SUPPLY SUPPORT     0.0     0.0       210     TEVEL MAINTEMANCE     0.1     0.1       210     DFFMATOR     0.0     0.0       210     DFFMATOR     0.0     0.1       211     DFFMATOR     0.0     0.1       212     DFFMATOR     0.0     0.1       213     DFFMATOR     0.0     0.1	700     DEFUT_LEVEL     1.440     2.1       710     0/1 LEVEL     0.4400     2.1       710     0/1 LEVEL     0.1     2.1       710     0/1 LEVEL     0.1     2.1       710     0/1 LEVEL     0.1     2.1       710     0/1 LEVEL     2.1     2.1       710     0.1     0.1     0.1       711     0.1     0.1     0.1       711     0.1     0.1     0.1       711     0.1     0.1     0.1       711     0.1     0.1     0.1       711     0.1     0.1     0.1       711     0.1     0.1     0.1       711     0.1     0.1     0.1       711     0.1     0.1     0.1       711     0.1     0.1     0.1       711     0.1     0.1     0.1       711     0.1     0.1     0.1	700     0.0     0.1     0.1     0.1       710     0.1     1.440     0.0     2.1       710     0.1     1.440     0.0     2.1       710     0.1     1.440     0.0     2.1       710     0.1     1.440     0.0     2.1       710     0.1     1.440     0.0     0.1       710     0.1     0.0     0.1     0.1       710     0.1     0.000     0.1     0.1       710     0.1     1.147900     0.1     0.1       710     0.1     0.1     0.1     0.1       710     0.1     0.1     0.1     0.1       710     0.1     0.1     0.1     0.1       710     0.1     0.1     0.1     0.1       710     0.1     0.1     0.1     0.1       710     0.1     0.1     0.1     0.1       710     0.1     0.1     0.1     0.1       710     0.1     0.1     0.1     0.1       710     0.1     0.1     0.1     0.1       711     0.1     0.1     0.1     0.1       711     0.1     0.1     0.1     0.1       711	001	SHOP SPACE	961.440	2.1	
200     TWVENTOWY STARAGE     965-400     2.1       210     0/1 LFVEL     960-000     2.1       220     0/1 LFVEL     960-000     2.1       200     0/1 LFVEL     960-000     2.1       200     0/1 LFVEL     960-000     2.1       200     0/1 LFVEL     9.0     0.2       200     0/1 LFVEL     0.000     0.0       200     0/1 LFVEL     0.000     0.0       200     0/1 LFVEL     0.100     0.4       200     0/1 LFVEL MAINTEMANCE     0.1     0.1       200     0/1 LFVEL MAINTEMANCE     0.1     0.1       200     0/1 LFVEL MAINTEMANCE     0.0     0.1       200     0/1 LFVEL MAINTEMANCE     0.0     0.1	700     TWVENTOWY STARAGE     967.400     2.1       710     0/1 LFVEL     2.1     2.1       720     DFPTI LEVEL     960.000     2.1       700     DFPTI LEVEL     2.400     9.0       700     SUPPLY SUPPORT     7.000     9.0       700     SUPPLY SUPPORT     4.564.001     9.5       700     SUPPLY SUPPORT     4.564.001     9.5       700     SUPPLY SUPPORT     1.72.800     9.5       700     TRUPLICS     1.72.800     9.5       700     TRAINIG     1.72.800     9.1       700     TRAINIG     1.72.800     9.5       700     TRAINIG     1.72.800     9.1       700     TERMILATION     1.77.800     9.1       700     TERMILATION     1.77.800     9.1       700     TERMILATION     1.77.900     9.1       700     TERMILATION     1.7000     9.1	200     TWVENTOWY STARAGE     9654400     2.1       210     0/1 LFVEL     9654400     2.1       220     0/1 LFVEL     9654400     2.1       210     0/1 LFVEL     2.1     2.1       200     0/1 LFVEL     2.1     2.1       200     0/1 LFVEL     2.1     2.1       200     0/1 LFVEL     2.1     2.1       201     0/1 LFVEL     2.1     2.1       202     00000     0.0000     0.0       303     SUPPLY SUPPORT     0.0000     0.2       200     SUPPLY SUPPORT     1.392.001     9.5       200     SUPPLY SUPPORT     1.392.001     9.5       200     SUPPLY SUPPORT     1.17.900     0.1       200     0.1 LFVEL MAINTEMANCE     3.1900     0.1       200     0.1 LFVEL MAINTEMANCE     3.900     0.1       200     0.1 LFVEL MAINTEMANCE     3.900     0.1       200     0.1 LFVEL MAINTEMANCE     3.900     0.0       201     0.1 LFVEL MAINTEMANCE     3.900     0.1       201     0.1 LFVEL MAINTEMANCE     3.900     0.1       201     0.1 LFVEL MAINTEMANCE     3.900     0.1	021	DEPOT LEVEL			
710     0/1 LFVEL     960.000     2.1       720     050114EVATION MAINTENANCE     2.400     0.0       700     500.000     0.0     0.2       700     500.000     0.0     0.2       700     700     712.800     0.4       700     70     711 LFVEL     0.4       700     70     711 LFVEL     0.4       700     70     147.990     0.4       700     70     7.1     0.4       700     7.1     0.4     0.4	710     0/1 LFVEL     5.1     2.1       720     DFFNT LEVEL     2.400     2.1       720     DFFNT LEVEL     2.400     0.0       720     DFFNT LEVEL     2.400     0.0       720     SUPPLY SUPPORT     4.564.401     9.5       700     WFPLENISHMENT SPARES     4.397.001     9.5       700     FFLENISHMENT     172.800     0.4       700     FFLENISHMENT     54.400     0.4       710     FFLENISHMENT     9.5     9.5       710     FFLENISHMENT     172.800     0.4       710     FFLENISHMENT     9.5     9.5       710     FFLENISHMENT     9.5     9.5       710     FFLENISHMENT     9.6     9.1       710     FFLENISH     9.5     9.5       710     FFLENISH     9.5     9.5       710     FFLENISH     9.5     9.5       711     FFFLENISH     9.5     9.5       71	710     0.1 LFVEL     9.00,000     2.1       720     0.71 LFVEL     2.400     0.0       700     0.0014     7100     2.1       700     5.400     0.0     0.0       700     5.400     0.0     0.0       700     7.710     1.392.001     9.5       700     7.1 LFVEL     1.392.001     9.5       700     7.1 LFVEL     1.17.900     0.1       700     0.1 LFVEL     1.17.900     0.1       700     0.1 LFVEL     1.1.900     0.1       700     0.1 LFVEL     1.1.000     0.1       71<00	000	TNVENTORY STORAGE	962.400	2.1	
DOCUMENTION         MAINTENANCE         2:000         0:000         0:2           DOCUMENTION         MAINTENANCE         0:000         0:2         0:000         0.2           DOCUMENTION         SUPPLY SUPPORT         0:000         0.2         0.0         0.0           DOCUMENTATION         MAINTENANCE         0:000         0.0         0.0         0.0           DOCUMENTATION         0:000         0:1         0.0         0.0         0.0           DOCUMENTATION         0:1         0:0         0.0         0.0         0.0           DOCUMENTATION         0:1         0:0         0.0         0.0         0.0           DOCUMENTATION         0:0         0:0         0.0         0.0         0.0 <tr< td=""><td>DOCUMENTATION         DOCUMENTATION         DOCUMENT</td><td>000     00000     0.0     0.0       010     50000     0.0     0.0       010     50000     0.0     0.0       010     50000     0.0     0.0       010     50000     0.0     0.0       010     50000     0.0     0.0       010     50000     0.0     0.0       010     50000     0.0     0.0       010     50000     0.0     0.0       010     0.0     0.0     0.0       010     0.0     0.0     0.0       011     147.900     0.0     0.0       010     0.1     0.0     0.0       011     0.0     0.0     0.0       011     0.0     0.0     0.0       011     0.0     0.0     0.0       011     0.0     0.0     0.0       011     0.0     0.0     0.0       011     0.0     0.0     0.0       011     0.0     0.0     0.0       011     0.0     0.0     0.0       012     0.0     0.0     0.0       013     0.0     0.0     0.0       014     0.0     0.0     0.0       015     <t< td=""><td>210</td><td>0/1 LFVEL</td><td>960,000</td><td>2°1</td><td></td></t<></td></tr<>	DOCUMENTATION         DOCUMENT	000     00000     0.0     0.0       010     50000     0.0     0.0       010     50000     0.0     0.0       010     50000     0.0     0.0       010     50000     0.0     0.0       010     50000     0.0     0.0       010     50000     0.0     0.0       010     50000     0.0     0.0       010     50000     0.0     0.0       010     0.0     0.0     0.0       010     0.0     0.0     0.0       011     147.900     0.0     0.0       010     0.1     0.0     0.0       011     0.0     0.0     0.0       011     0.0     0.0     0.0       011     0.0     0.0     0.0       011     0.0     0.0     0.0       011     0.0     0.0     0.0       011     0.0     0.0     0.0       011     0.0     0.0     0.0       011     0.0     0.0     0.0       012     0.0     0.0     0.0       013     0.0     0.0     0.0       014     0.0     0.0     0.0       015 <t< td=""><td>210</td><td>0/1 LFVEL</td><td>960,000</td><td>2°1</td><td></td></t<>	210	0/1 LFVEL	960,000	2°1	
0.0     SUPPLY SUPPORT     4.554.801     9.5       1.0     WFPLENISHMENT SPARES     4.554.801     9.5       2.0     SUPPLY SYSTEM MANAGEMENT     1.72.800     9.5       2.0     TAINING     1.72.800     0.4       3.0     TAINING     1.72.800     0.4       3.0     TAINING     55.000     0.1       3.0     TAINING     55.000     0.1       3.0     TAINING     55.000     0.1       3.0     TAINING     3.900     0.1	0.0     SUPPLY SUPPORT     4,564.401     9,5       1.0     WFPLENISHMENT SPARES     4,392.001     9,5       2.0     SUPPLY SYSTEM MANAGEMENT     172.800     9,5       2.0     SUPPLY SYSTEM MANAGEMENT     172.800     0,4       2.0     SUPPLY SYSTEM MANAGEMENT     172.800     0,4       2.0     STAND     172.800     0,4       2.0     SAMON     172.800     0,1       2.0     SAMON     177.800     0,1       2.0     SAMON     177.900     0,1       2.0     SAMON     3,900     0,1       2.0     SAMON     14,000     0,2       2.0     SAMUNC     3,900     0,0       3.00     SAMUNC     3,900     0,0	0.0     SUPPLY SUPPORT     4.566.001     9.5       1.0     WFPLENISHMENT SPARES     4.392.001     9.5       2.0     SUPPLY SYSTEM MANAGEMENT     1.392.001     9.5       2.0     Supply System Management     1.392.001     9.5       2.0     Supply System Management     1.392.001     9.5       2.0     Supply System Management     1.15.800     0.4       2.0     OFWATOR     56.000     0.1       2.0     OFWATOR     56.000     0.1       3.0     OFWATOR     56.000     0.1       3.0     OFWATOR     3.900     0.0       3.0     OFWATOR     1.4.000     0.0       3.0     OFWATOR     1.4.000     0.0		DOCIMENTATION MAINTEMANCE		8.0	0 c
100         HFPLENISHMENT SPARES         4.392.001         9.5           200         510PLY SYSTEM MANAGEMENT         172.800         0.4           200         TAINING         1.17.800         0.4           200         TAINING         1.47.900         0.4           200         TAINING         56.000         0.1           200         TAINING         56.000         0.1           200         D/I LEVEL MAINFEMANCE         84.000         0.1           200         TAILEVEL MAINFEMANCE         3.000         0.0	100     HFPLENISHMENT SPARES     4.399,001     9.5       200     5.10PLY SYSTEM MANAGEMENT     172,800     0.4       200     5.10PLY SYSTEM MANAGEMENT     172,800     0.4       200     5.10PLY SYSTEM MANAGEMENT     172,800     0.4       200     0.1 LEVEL MAINTENANCE     54,000     0.1       200     0.1 LEVEL MAINTENANCE     3.900     0.1       300     TERMINATION     11,000     0.0	100     HFPLENISHMENT SPARES     4.392.001     9.5       200     SUPPLY SYSTEM MANAGEMENT     175.800     0.4       200     TRAINING     143.940     0.4       200     TRAINING     56.000     0.1       200     TRAINING     56.000     0.1       200     TERMIMATOR     56.000     0.1       200     D/1 LEVEL MAINTEMANCE     3.900     0.1       200     TERMIMATION     1A.000     0.0		SUPPLY SUPPORT	4.56.401		6. B
COUNT         State         Anadement         175:000         0.4           0.0         TRATOR         143:990         0.1         0.1           0.0         OFWATOR         56:000         0.1         0.1           0.0         OFWATOR         56:000         0.1         0.1           0.0         OFWATOR         56:000         0.1         0.1           0.0         OFWATOR         84:000         0.1         0.1           0.0         OFWATOR         84:000         0.1         0.1	000     TRAINING     0.4       000     TRAINING     0.3       000     0.44000     0.1       000     0.1     0.3       000     0.1     0.3       000     0.1     0.3       000     0.1     0.3       000     0.1     0.3       000     0.1     0.3       000     0.1     0.3       000     14.000     0.0       000     18.000     0.0       000     18.000     0.0	000     TATULT STATE ANAGENENT     175:800     0.4       000     TRANTA     143:900     0.1       000     0.1 LEVEL MAINTEMANCE     56:000     0.1       000     0.1 LEVEL MAINTEMANCE     3:000     0.2       000     TERMIMATION     0.0     0.0       000     TERMIMATION     11.000     0.0	001	HEPLENISHMENT SPARES	4+392+001		
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e 11.001	•	TOTAL		3,960,000		3.210.000	2,325,000 200,000	300.000 	150.000	75.000		885.000 550.000	335.000	50.000	1.617.925	920.000	5.000.000	350.000 /	60.000	5.007.945	500,400	3.219.475	3,494,475	43,200	825.010 225.000		300.259	250 . 250	
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		8	ž.	0.50		375.00	435.00	125.00	300.00	450.00	175.00	175.00	350.00	750.00	ISE VALUES	M BASE VAL											
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ATF 11/ 1/76	SAMPLF COMPUTER RUN	FOR NAVNAT FOUTOMENT LIFE	CYCLE COST MOREL	. PABE 7.80
1 . 1		SUMMARY 	*****ASE YEAR=1 •1NFL	ATED DOLLAPS*****
COST CATFROWY	DEVELOPMENT	INVESTMENT	<b>S 1 0</b>	CATEGORY Total
COMPACTOR A OF COST CATEGORY TOTAL A OF COST ELEMENT TOTAL	2.901.275 100.0 71.3			2,901.275 100.0 5.3
POGRAM MANAGEMENT & DF COST CATFGORY TOTAL & DF COST ELEMENT TOTAL )	821.600	1,013,480 5,55 7,6		1,835,080 100.0 3.4
FFSTIVA Restrances Category Total and Cost Elfwent Total	131.925 133.925 158 15.2 15.2	55,350 14.2 0.4		389.275 146.0 0.1
PRIME FOULPHENT * NF COST CATEGORY FOTAL * NF COST FLEMENT TOTAL		6.444.596 101.0 1 48.6	• • •	6.444.596 180.0 11.9
TAALNING • NF CAST CATFGORY TOTAL • NF CAST ELEMENT TOTAL	10,250 ?.5 0.3	217.050 54.5 1.6	171,482 42,9 6.5	399+682 100.0 0.7
SUPPLY SUPPORT 5 OF COST CATEGORY TOTAL 5 OF COST ELEMENT TOTAL		3,781,585   4.,8 28.5	5.480.900 59.2 14.8	9,261,485 100.0 17.0
TECHNICAL DATA * AF CAST CATFAORY TOTAL * AF COST ELEMENT TOTAL		310,777 77,0 77,0 2,3	92,780   23,0   0,3	403+557 100.0 0.1
SUPPORT FOULPHENT % OF COST CATEGORY TOTAL % OF COST FLEMENT TOTAL		517,500   100,0   3,9		517+500 100.0 1.0
DEFATTON & DF COST CATEGORY TOTAL & DF COST ELEMENT TOTAL		250.575 2.5 1.9	9,733,315 97,5 26,3	9,983,690 100. 18.4
MAINTFNANCE A DF COST CATEGONY TOTAL A DF COST ELEMENT TOTAL	•••	668+209 3.0 3.0	21,578,507   97.0   58.2	22,246,707 100.0 40.9
COST ELEMENT TOTAL A OF LIFE CYCLE COST	4.067.050   7.5	   13,259,013   24,4	37,056,985   68.1   68.1	54,383,048 100,0

FA6E 7.003	WFLATED AND DISCOUNTED***** Cost Category Total	2,768,500
IFE CYCLE COST MODEL		
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SAMPLF	COMPUTER	AUN	FOR	NAVMAT	E OU I PMENT	LIFE	CVCLE	COST	Ž
				SUMMA	24				

- COST ELEMENT

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DATE 11/ 1/76

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100.0 100.0 38.6 100.0 16.9 100.0 °.' 17.3 100.0 100.0 100.0 100.0 100.0 8.0 100.0 6,944,470 15,868,875 1,637.620 317,299 366,550 5,238,260 365.720 493.000 7,132,567 ••• ... ... ••• 69,680 19.1 96.5 58.2 ••• 38.4 97.1 26.3 3.871.233 14.7 0.3 121,966 6.922.267 15,308,075 58.5 296.040 80.9 2°0 2°0 853.520 52.1 44.3 28.0 Α. 1.61 5,238,260 100.0 47.8 2.7 100.0 4 3.5 1.7 2 47.950 185,562 493,000 210,300 560,800 3.073.237 INVESTMENT 318,600 86.9 8.2 47.9 ••• ••• ••• ••• • • 00 100.0 а. . E.17 ............ • • • 7A4.000 9.770 2.768.500 DEVELOPMENT SUPPIX SUPPART 4 of COST Categary Total 4 of COST Element Total . NE CAST CATFARRY TOTAL . OF CAST ELEMENT TOTAL PRARAM MANAGEMENT & AF Cost Category Total & AF Cost Elfment Total S OF COST CATFGORY TOTAL S OF COST CATFGORY TOTAL # NF COST CATEGORY' TOTAL \* OF COST CATFGORY TOTAL S OF COST CATEGORY TOTAL B OF COST ELEMENT TOTAL . OF COST CATFGORY TOTAL . OF COST ELEMENT TOTAL \* NF COST CATEGORY TOTAL \* NF COST ELEMENT TOTAL A DF COST CATEGORY TOTAL A DF COST ELEMENT TOTAL \* \*\*\*\*\*\*\*\*\*\*\*\* COST CATERORY \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* UPPART FOUTPHENT PRIME FOULDWENT FCHNICAL DATA MAINTENANCE CONTRACTOR OPERATION PAINING FSTIMA

D-37

41,132,860 100,0

26.293.221 9163

10,958,769 26,6

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COST ELFMENT TOTAL 4 of Life Cycle Cost

3,880,870 9.4

## APPENDIX E

### FLEX Technique Sample Computer Run

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FLEX Technique Sample Computer Run

This Appendix contains an example of a computer run provided for the user to show the flexible capabilities of the computer program to make changes in the basic NAVMAT LCC Equipment Cost breakdown structure and equations.

All the regular reports are available after the desired changes are implemented.

The following changes are requested :

A. Redefine the contractor costs during the full scale development.

Original format

Documentation

Support & Test Equipment

CS121600

CS121700

### Requested change

CS121000	Contractor	CS121000	Contractor
CS121100	Management	CS121100	Prime Contractor
CS121200	Engineering	CS121200	Other Contractor
CS121300	Prototype Hardware		
CS121400	Software		
CS121500	Test & Evaluation		

These changes can be implemented in more than two ways; however, the two basic ways to accomplish the changes are as follows:

Delete all of the cost elements under 'Contractor' 1. one by one and then insert the cost elements for 'Prime Contractor' and 'Other Contractor'.

2. Delete the cost element 'Contractor' which automatically deletes all of the lower indenture level cost elements under Contractor, then Reconstruct the cost elements for 'Contractor', 'Prime Contractor', and 'Other Contractor'.

E-1

Because it requires fewer changes, in this example the second method is more preferred.

The following cards are prepared to be inserted in the associated files:

Prepare following cards for CS file

*(1)	(11)	(55)	(60)	(65)	(70)	(80)
CS121000	<u>СОМФ27СФО</u>					T
CS121000	PRIME CONTRACTOR	1 ~	1	1	T	
E0121100	DPC(I):I.1.Y	-	•	*	-	
CS121200	OTHER CONTRACTOR	1	1	1	1	
EQ121200	DOC(I);I,1,Y					

\* Numbers in parentheses indicate the starting column number of the entries.

Note that since CS121000 'Contractor' cost element is not the lowest indenture level no input to describe the cost category, funding type, inflation type is provided, and there is no equation defined for it. The cost of this cost element is the summation of the costs of the cost elements below it.

Because new variables are introduced to define the equations, these values should be described (optional) and values must be entered thru NV file.

Prepare following cards for NV file

E-2

(1)(5)(16)DS DPC(I) Payment By Government To Prime Contractor For Full Scale DS DPC(I) Development Effort During Year I (\$/yr) NV DPC(Y) 2500000,4\*0. DS DOC(I) Payment By Government To Other Contractors for Full Scale Development Effort During Year I DS DOC(I) (\$/yr) NV DOC(Y) 750000,4\*0.

B. Revise the equation for the initial spares for prime equipment (CS232110). Write an equation that provides a thru put by year.

Prepare following cards for CS file

(1) (11) (70) CS232110 1 EQ232110 ISP(I);I,1,Y (70)

Note that a CS Card is necessary to indicate that there is a change requested in this cost element equation.

Prepare following cards for NV file

(1)	(5)	(16)							
DS	ISP(I)	Acquisition (	Cost	of	Prime	Equipment	Initial	Spares	(\$/
DS	ISP(I)	yr)						-	
NV	ISP(Y)	0,500000,3*0	•						

C. Redefine the funding type and the inflation factor type of the 'Operation and Supply' facilities from MILCOM to O&M.

Prepare following cards for CS file

(1)	(60)	(65)
CS312000	4	4
CS325110	4	4
CS325120	4	4
CS325210	4	4
CS325220	4	4

E-3

D. Change the description of CS327200 from 'Supply System Management' to 'Inventory Management'.

Prepare following card for CS file

(1) (11) CS327200 INVENTORY MANAGEMENT

E. Separate termination costs from the operating and support costs, define a new major cost element for "termination' costs, and assign the value of this cost to the last year of the analysis period. Remove termination costs from maintenance cost category and define a new cost category for 'Termination'.

Prepare following cards for CS file

(1) CS330000	(11)	(55)	(60)	(65)	(70)	(80) 1
CS400000	TERMINATION					-
CS410000	SALVATION	11	2	2	1	
EQ410000	SALV;I,Y,Y					
CS420000	DISPOSAL	11	4	4	1	
EQ420000	DISP;I,Y,Y					

Prepare following cards for NV file

(1)	(5)	(16)				
DS	SALV	Salvation cost of the Prime Equipment	(	Ş	\$	)
NV	SALV	- 250000.				
DS	DISP	Disposal cost of the Prime Equipment (	(	\$	)	
NV	DISP	300000.				

Changes requested in the major cost element heading and cost category name should be done thru the NAMELIST Input Data file. Prepare following cards for NAMELIST data file

(2) ELT4='TERMINAT','ION', CAT11='TERMINAT','ION',

and the Carl Street on State

F. Identify life cycle cost years in four character alpha-numeric presentation.

Prepare following card for <u>NAMELIST data file</u> (2) YEARS='FY77','FY78','FY79','FY80','FY81',

Through deletion and changes of the equations, some of the built-in variables are no longer needed for computational purposes. These variables don't require input values. These variables are:

From change 1.

DCPM(I), DCE(I), DCH(I), DCS(I), DCTE(I), DCD(I),
DCST(I)

From change 2.

FPST, FILS, FIRT, FDRT

From change 4.

NPO(I), TERM

Since a variable may be used more than one cost element equation these changes should be checked for verification by using table V.2 presented in the documentation.




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AND VALUES OF GUILF-IN VARIABLES       Page 4.001         MAME       Dass.000.00       Sample computes in the Network of Guilf-IN VARIABLES         An       ( s)       Coulisition Cost of Data Dualing Investment Feration       ( s/VEAR )         AD       ( s)       Coulisition Cost of Data Dualing Investment Feration       ( s/VEAR )         AD       ( s)       Coulisition Cost of Data Dualing Investment Feration       ( s/VEAR )         AD       ( s)       Coulisition Cost of Data Dualing Investment Feration       ( s/VEAR )         AD       ( s)       Coulisition Cost of The Contract, AND MAAGERIAL WORK FERFORMED DURING VALIDATION PAASE ( s/VEAR )         AD       ( s)       Coulisition       0.00       0.00         AD       ( s)       Coulisition       0.00       0.00         AD       ( s)       AD       VALIDATION PAASE ( s/VEAR )         AD       ( s)       Coulisition       VALIDATION PAASE ( s/VEAR )         AD       ( s)       Coulisition       0.00       0.00         AD       Coulisition       Coulisition       VALIDATION PAASE ( s/VEAR )         AD       ( s)       Coulisition       V</td> <td>Daily 11/1/14       SAMPLE COMPUTER RUN FOR FLEX TECMINIE OF NAVMAT LCC MODEL       PARE 4.001         Name       NAMPLE COMPUTER RUN FOR FLEX TECMINIE OF NAVMAT LCC MODEL       PARE 4.001         And       NAMPLE COMPUTER RUN FOR FLEX TECMINIE OF NAVMAT LCC MODEL       PARE 4.001         And       Name       Descriptions, Internations, Nan Values of Built-in Variables         And       Name       Descriptions, Internations, Nan Values of Built-in Variables         And       Name       Descriptions, Internations, Nan Values of Built-in Variables         And       Name       Description       Description         And       Description       Description       Streame         And       Description       Streame       Description         And       Description       Streame       Description         And       Description       Description       Streame         And       Description       Description       Streame         And       Description       Description       Streame       Streame         And       Description       Description       Streame       Streame       Streame         And       Description       Description       Streame       Description       Streame         And       Description</td> <td>Daily 11/1/16       SAMPLE COMPUTER RUM FOR FLEX TECHNIQUE OF MAYMAT LCC MODEL       PARE 4.001         MANE       MAYE'S, DESCRIPTIONS, AND VALUES OF BULLT-IN VARIABLES       MAYE'S, DESCRIPTIONS, AND VALUES OF BULLT-IN VARIABLES         MANE       Dational Datine Dateneconal Dational Dational Datine Dational Dati</td> <td>DATF 11/ 1/14       SAMPLE COMPUTER RUM FOR FLEX TECMIOLE OF MINART LCC MOBEL       PARE 4.001         MATES. 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AND VALUES OF BULLT-IN VARIAMES       PARE 4.401         MUME       ACUISTIONS OF OF DIT DURING INVESTMENT FRAID       PASE 4.401         MUME       ACUISTION OFST OF DIT DURING INVESTMENT FRAID       PASE 4.401         MUME       ACUISTION OFST OF DIT DURING INVESTMENT FRAID       ACUISTION PHASE         MUME       ACUISTION       ACUISTION       ACUISTION         ACC       ACUISTION       ACUISTION       ACUISTION         ACC       ACUISTION       ACUISTION       ACUISTION       ACUISTION         ACC       ACUISTION       ACUISTION       ACUISTION       ACUISTION         ACUIDEL       ACUISTION       ACUISTION       ACUISTION       ACUISTION         ACUIDEL       ACUISTION       ACUISTION       ACUISTION       ACUISTION       ACUISTION         ACUISTION       ACUISTION       ACUISTION       ACUISTION       ACUISTION       ACUISTION       ACUISTION       ACUISTION         ACUISTION       ACUISTION       ACUISTION       ACUISTION       ACUISTION       ACUISTION       ACUISTION       <t< td=""><td>DATY 11/17A       SAMMLE COMPUTER RUM FOR FLEX TECHNIQUE OF MUMAT LEC MODEL       PARE 4-01         MANES. 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AND VALUES OF GUILF-IN VARIABLES       Page 4.001         MAME       Dass.000.00       Sample computes in the Network of Guilf-IN VARIABLES         An       ( s)       Coulisition Cost of Data Dualing Investment Feration       ( s/VEAR )         AD       ( s)       Coulisition Cost of Data Dualing Investment Feration       ( s/VEAR )         AD       ( s)       Coulisition Cost of Data Dualing Investment Feration       ( s/VEAR )         AD       ( s)       Coulisition Cost of Data Dualing Investment Feration       ( s/VEAR )         AD       ( s)       Coulisition Cost of The Contract, AND MAAGERIAL WORK FERFORMED DURING VALIDATION PAASE ( s/VEAR )         AD       ( s)       Coulisition       0.00       0.00         AD       ( s)       Coulisition       0.00       0.00         AD       ( s)       AD       VALIDATION PAASE ( s/VEAR )         AD       ( s)       Coulisition       VALIDATION PAASE ( s/VEAR )         AD       ( s)       Coulisition       0.00       0.00         AD       Coulisition       Coulisition       VALIDATION PAASE ( s/VEAR )         AD       ( s)       Coulisition       V | Daily 11/1/14       SAMPLE COMPUTER RUN FOR FLEX TECMINIE OF NAVMAT LCC MODEL       PARE 4.001         Name       NAMPLE COMPUTER RUN FOR FLEX TECMINIE OF NAVMAT LCC MODEL       PARE 4.001         And       NAMPLE COMPUTER RUN FOR FLEX TECMINIE OF NAVMAT LCC MODEL       PARE 4.001         And       Name       Descriptions, Internations, Nan Values of Built-in Variables         And       Name       Descriptions, Internations, Nan Values of Built-in Variables         And       Name       Descriptions, Internations, Nan Values of Built-in Variables         And       Name       Description       Description         And       Description       Description       Streame         And       Description       Streame       Description         And       Description       Streame       Description         And       Description       Description       Streame         And       Description       Description       Streame         And       Description       Description       Streame       Streame         And       Description       Description       Streame       Streame       Streame         And       Description       Description       Streame       Description       Streame         And       Description | Daily 11/1/16       SAMPLE COMPUTER RUM FOR FLEX TECHNIQUE OF MAYMAT LCC MODEL       PARE 4.001         MANE       MAYE'S, DESCRIPTIONS, AND VALUES OF BULLT-IN VARIABLES       MAYE'S, DESCRIPTIONS, AND VALUES OF BULLT-IN VARIABLES         MANE       Dational Datine Dateneconal Dational Dational Datine Dational Dati | DATF 11/ 1/14       SAMPLE COMPUTER RUM FOR FLEX TECMIOLE OF MINART LCC MOBEL       PARE 4.001         MATES. 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ومناقضا بسرون السويات والمنادي والمناوية

فأقلفهما فالمعطوم فأنتب فستحض أعتر تغمرته وإزكر ممافاتكم ومخرم متطرعهما لتشكيلا فالمنتجر مسيم

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	MAMES. DESCRIPTIONS. DIMENSIONS, AND VALUES OF BUILT-IN VARIABLES	
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	5) RELIABILITY INPROVENENT ON DEGRIDATION FACTOR ( DIMENSIONLESS ) ,00 1.00 1.00 1.00 0.90 0.90 0.75	
<b>;</b> •	5) ANMUAL INFLATION RATE FOR FUTUME COSTS FOR CONSTRUCTION TYPE OF FUNDING ( RATIO ) .06 0.06 0.06 0.06 0.06 0.06	
÷.	5) AMMUAL INFLATION RATE FOR FUTURE COSTS OF OLM TYPE OF FUNDING ( RATTO ) .05 0.05 0.05 0.05 0.05 0.05	
2 · · · · · · · · · · · · · · · · · · ·	5) AMMUAL INFLATION RATE FOR FUTURE COSTS OF PROCUREMENT TYPE OF FUNDING ( RATIO ) .07 0.07 0.07 0.07	•
- 9.0	5) AMMUAL INFLATION RATE FOR FUTURE COSTS OF RAD TYPE OF FUNDING ( RATIO ) ,05 0.05 0.05 0.05 0.05 0.05	
<pre>%</pre> %	5) STARAGE SPACE REQUIRED FOR THE DEPAT INVENTORY ( SA. FT./YEAR ) ,00 250.00 250.00 250.00 250.00 250.00	
( 2) 9-0	5) STORAGE SPACE REQUIRED FOR THE 0/1 INVENTORY { SQ, FT,/YEAR } .00	
2.0	YEAR DURING WHICH INITIAL COST OCCUR ( DIMENSIONLESS )	
- 2) 9-9	5) DESIGED 4ANNING LEVEL FOR OPERATING PERSONNEL ( PERSONNEL/YEAR ) .00 0.00 0.00 69.00 100.00 100.00	
( 2) 0.0	5) DESTRED MAMMING LEVEL FOR D/I LEVEL MAINTEMAMCE PERSONNEL ( PERSONNEL/YEAR ) ,00 0.00 84.00 100.00 100.00	
5 9.9	5) DESIRED MAMMING LEVEL FOR DEPOT LEVEL MAINTENANCE PERSONNEL ( PERSONNEL/YEAR ) ,00 0.00 10.00 10.00 10.00 10.00	•
9•0	PRFVFNTIVE MAINTENANCE LABOR TIME FOR NTH MAINTENANCE ACTION ( HR/ACTION ) ,00 15.00	•
	5) DEPOT MAINTENANCE LABOR TIME TO REPAIR THE KTH ITEM ( HA/ITEM ) .00 7.00 18.00 6.00 0.00 9.00 6.00 20.00 .00 5.00 10.00 5.00 15.00	5.00
4 15 0.0 0.0	5) D/I LEVEL MAINTEMANCE LABOR TIME TO REPAIR THE KTH ITEM ( HR/ITEM ) .00 5.00 12.00 4.00 8.00 6.09 5.00 12.00 .00 3.06 7.00 3.00 11.00	
( 15) 3.0 2.0	5) 0/1 LEVEL MAINTEWANCE LABUR TIME TO REMOVE AND REPLACE THE KTH ITEM ( HR/ITEM ) . .00 2.00 1.80 2.60 4.00 .00 2.00 4.00 1.00 3.00	2 00°2

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C	DATE	11/ 1/76	SAMPLE COMPUTER RUN FOR FLEX TECHNIGHE OF NAVNAT LCC MODEL		
C			NAMES. DESCRIPTIONS, DIMENSIONS, AMD VALUES OF BUILT-IM YARIABLES		
: 	NAME		DESCATATION	•	
•	H	( S) 50.00	MATERIAL COST FOR WTH TYPE OF PREVENTIVE MAINTENANCE ACTION ( \$/ACTION ) 150.00	•	
•	MSSD	1 5) 0.00	SMAP SPACE REGUIRED FOR DEPOT LEVEL MAINTENANCE ( 50. FT./YEAR ) 150.00 150.00 150.00 150.00 150.00	•	
•	1554	( S) 0.00	SHAP SPACE REQUIRED FOR D/I LEVEL MAINTENANCE ( SQ, FT,/YEAR ) 1.000.00	•	
•	2	( 5) 0.00	NUMRER OF EQUIPMENTS IN THE NAVY'S INVENTORY SYSTEM { EQUIP./YEAR } 0.00 80.00 100.00 100.00	•	
•	U Z	( 5) 0.00	NUMMER OF COPIES OF TECHMICAL DATA TO BE DISTRIBUTED AND INVENTORIED ( COPIES/YEAR ) 25.00 0.00 0.00 0.00 0.00	•	•
•	¥	15	TOTAL NUMBER OF SPARE/REPAIR ITEMS IN THE PRIME EQUIPMENT ( DIMENSIONLESS )	C	
• 	Ĩ	ه	TOTAL NUMMER OF PREVENTIVE MAINTENANCE TYPES OF THE PRIME EQUIPMENT ( NIMEMSIONLESS )	)	;
<b>9</b> 20	Z	( ÷) 8.00	PRIME EQUIPMENT ANNIMAL ACCEPTANCE SCHFDULE ( EQUIP,/YEAR ) 50.00 30.00 20.00 20.00	•	
•	HON	f 5) 0.00	PRIME EQUIPMENT OVERMAUL SCHEDULE ( EQUIP./YEAR ) 0.00 0.00 0.00 0.00 0.00	•	•
•	4 2	200,00	NUMBER DF PAGES PER TECHNICAL MANUAL MAINTAIMED BY MAVY ( PAGES/COPY )	•	· \
•	N dN	( 5) 100 <b>.00</b>	TIME RETWEEN INSPECTIONS OF THE PREVENTIVE MAINTENANCE ACTIONS ( MR/ACTION ) 500.00	•	
٠	NSN	75,00	TOTAL NUMBER OF NEW NATIONAL STOCK NUMBERS TO BE ISSUED ON THE PRIME EQUIPMENT & NSN )		
•	SNSN	350 <b>.</b> 08	TOTAL NUMMER OF NEW MATIQUAL STOCK NUMMERS TO BE ISSUED ON THE PECULIAR SLIE EQUIPMENTS ( NSN )		
•	ЧU	120.00	PRIME EQUIPMENT OVERHAUL MAINTENANCE LABOR TIME ( MR/EQUIP. )		1×3
	Ĩ	1.500.00	PRIME EQUIPMENT OVERMAUL MAINTENANCE MATERIAL COST ( \$/EQUIP. )		•
٠	0HT	500 <b>.</b> 00	PRIME EQUIPMENT OVERMAUL MAINTENANCE MATERIAL SMIPPING RATE ( S/EQUIP. )	). (	
0	• • •	• • • •	••••••••••••••••••••••••••••••••••••••		
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3.600.00 9.41M 6.51 6.00 5.50 5.50 5.50 5.50	WAMES, DESCRIPTIONS, DIMENSIONS, AND VALUES OF BUILT-IN	NOPEL	
1.600.00 PR1M 1.500.00 PR1M ( 5) 60VF 0.60 550		I VARTADLES	
9814 1.600.00 9814 ( 5) 60VE 8.00 550	DE SCRIPTION	-	
6.00 60VFI 6.00 650 MIND	4E EQUIPMENT ANNUAL OPERATING TIME ( MR/YEAR )		
	TANMENT PROJECT MAMAGEMENT COSTS INCURRED DURING INVESTMENT PERIOD ).990.00 270.000.00 0.00 0.00 0.00 0.00	( S/YEAR )	
1.00	NER OF PERSONNEL REGUIRED TO OPERATE A PRIME EQUIPMENT ( PERSOMMEL/	route. )	
50"00 FLOD	JR SPACE REQUIRED FOR THE OPERATION OF A PRIME EQUIPMENT ( 50. FT./	FOULP. 1	
( 5) PRON	NUCTION SUPPORT & SERVICES COST INCURRED DURING THE INVESTMENT PERIC 1.000.00 0.00 0.00 0.00 0.00	DD ( S/YEAR )	
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1 5) NJMH	AFR OF INSTRUCTORS TO RECEIVE INITIAL TRAINING { STUDENT/YEAR } 15.00 0.00 0.00 0.00		
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( 5) NUMRI 0.00	1FH OF DEPOT MAINTEMANCE PERSONNFL TO RECEIVE INITIAL TAAINING ( \$1 10.00 0.00 0.00 0.00	(UDENT/YEAR )	
( 15) NUMA 2.00 2.00	JFP OF QUANTITIES OF A SPARE/REPAIR ITEM ( QUANTITY/ITEM ) 4.00 1.00 3.00 6.00 1.00 2.00 1.00 1.00 1.00	2.00 1.00	2.00
( 15) MEAN 750.00 350.07	+ TIME BETWEEM, FAILURES OF THE SPARE/REPAIN ITEM ( MR/ITEM ) 500.00	10.00	19 <b>.00</b> 350.00
0PER. 6.40	1ATOR AMD 0/1 LEVEL MAINTENAMCE PERSONNEL ATTRITION RATE ( RAFLO )		
0.13 0.13	)T LEVEL MAINTEMANCE PERSONNEL ATTRITION RATE ( RATIO )		
7ECH 100.00	WICAL DATA MANAGEMENT COST FOR FILE MAINTENANCE ( S/PAGE/YEAR )		

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IF 11/ 1.	6 SAMPLE COMPUTER RUN FOR FLEX TECHNTOUE OF NAV4AT LCC MODEL	IGE 4.006
	NAMES, DESCRIPTIONS, DIMENSIONS, AND VALUFS OF BUILT-IN VARIARLES	
	DESCRIPTION	
E 100	AVFRAGE MATIONAL STOCK NUMMER (NSN) ENTRY COST INTO THE SUPPLY SYSTEM ( S/NSN ) no	
100	SUPPLY SUPPORT MANAGEVENT [TEM RETENTION AND FIELD ADWINISTRATION COST ( S/NCM ) 00	
-	PRIME EQUIPMENT OPERATOR MOURLY PAY RATE { \$/HR/OPFRATOR } 87	
۔ د	PACKAGING LABOR COST ( S/LR. ) 00	
1	PACKAGING MATERIAL COST ( S/LB. ) 50	
0 1	DEPUT MAINTENANCE PERSONNFL PAY RATE TO REPAIR FAILED ITEMS ( \$/HR/MAN ) 22	
-	0/I MAINTENANCE PERSONNEL PAY RATE TO REMOVE, REPLACE OR REPAIR FAILED TIEMS ( \$/HR/MAN ) 87	
a	AVEAAGE SHIPPING COST ( %/LA. ) 10	
~ ~ ~ ~	) FRACTION OF FAILURES REPATRED AT THE INTERMEDIATE MAINTENANCF LEVEL FOR THE KIM ITEM ( RATIO ) 00 0.80 0.80 0.70 0.50 1.00 85 0.85 0.50 0.50 0.70 0.40	0.85
	) RATTO OF THE SHIPPING WEIGHT TO THE UNPACKED WEIGHT OF THE KIM ITEM ( PATIO ) 25 1.25 1.25 1.25 1.25 1.25 1.25 25 1.25 1.25 1.25 1.25 1.25	1.25
500.000	) SUPPORT & TEST FOULDMENT ACOULSITION COST ( \$/YE4R ) 00 0.00 0.00 0.00 0.00 0.00 0.00	
5	SUPPORT & TFST EQUIPMENT INITIAL SUPPORT RATE, PERCENT OF SATE ACQUISITION COST ( AATTO ) 25 .	
5.000	SUPPART & TEST EQUIPMENT RECURRING SUPPORT CAST PER PRIMEEQUIPMENT ( S/EQUIP. ) 00	
(   75 275	) UNPACKED WEIGHT OF THF KTH ITFM ( LR./ITEM ) 00 100.00 170.00 300.00 250.00 190.00 300.00 <b>50.00 600.0</b> 0 00 310.00 140.00 260.00 700.00	450.00
Ľ	NUMAFA OF YEARS COVERED BY THE LIFE CYCLE ANALYSIS ( DIMENSIONLESS )	

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04TE 11/ 1/76	SAMPLE COMPUTER RUN FOR FLEX TECHNIGHE OF MAVMAT LCC MODEL User defined Arrays	PAGE 5.042	• •	
	LRRAYS		•	
NAME DAC ( 5) 750.000.00	DESCRIPTION PAYMENT BY GOVERNMENT TO NTHER CONTRACTORS FOR FULL SCALE DEVELOPMENT EFFORT NURING YEAR 1 ( \$/YR ) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		• •	
00C ( 51 2.500.800.80	PAYMENT BY BOVERNMENT TO PRIME CONTRACTOR FOR FULL SCALE DEVELORMENT ETTON		•	
15P ( 5) 0.00	ACQUISTTROM COST OF PRIME EQUIPMENT INTERNATION 0.00 San.000.00 0.00 0.00 0.00 0.00 0.00 0.00	• • • • • • • • • • • • • • • • • • • •	•	
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• • • •	19061	DISCOUNT FACTON	CONSTRUCTION 0.982 0.912 0.912 0.8179 0.8179 0.8179	ICTORS AS OLN .							
:	OF NAVNAT LCC P	URS INFLATION AND	PROCURENENT 0.984 0.933 0.933 0.933								
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	SAMPLE COMPUTER	N FACTORS	CONSTRUCTION 1.030 1.092 1.157 1.227 1.300	ANY PERSONNEL P							
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	1/16		R L D 1.027 1.034 1.144 1.1207 1.207								
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SAMPLE COMPUTER RUN FOR FLEX TECHNIQUE OF NAVNAT LCC NODEL

SUMMARY

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DATE 11/ 1/76

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COST	TOTAL	0.0 1 3.750.000 0.0 1 3.750.000 0.0 1 0.0	0 1 1.720.000 0.0 1 1.720.000 0.0 1 3.0	175.000 0.0 1.0 1.0 1.0 1.0	6.250.000 0.0 5.250.000 10.0	923, 400 923, 400	•.001 •.001 •.001 •.001 •.001 •.001 •.001
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	HE OF NAVNAT LCC MODI	4ENT	••	30,862,367   68.9	
	R RUM FOR FLEX TECHNIC Slimhady	COST ELEI INVESTMENT		9,022,750   20.1	
م الإجار	Sąmple computer			4.655.000	· · · · · · · · · · · · · · · · · · ·
	DATE 11/ 1/76	555 COSTS IN DOLLARS 555 CATEGORY	TERMINATION	COST FLEMENT TOTAL P. OF LIFF CYCLE COST	

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76	SAMPLE	COMPUTER RUN FL	OR FLEX TECHNIQL	JE OF NAVNAT LCI	C MODEL		FAGE 0.001
N DOLLARS <b>555</b>	0 0 0 0 0 0		DING V5. COST CI FUWDING	ATEGORY ************************************	•945E YEAR#FY77 • • =	CONSTANT DOLL	ARSeese I COST
CATEGORY	C	PROCUREMENT	I CONSTRUCTION	1	MIL. PERSONNEL!	OTHERS	CATEGORY TOTAL
CATEGORY TOTAL!	3.750.000 100.0 77.7			e 0 0 0 0		•••	3. 750.000 100.0
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	E OF NAVMAT LCC	[£8∩RY *****	1	- 000 · 000	25,105,964						•	
	FLEX TECHNIQUE	NO VS. COST CA	CONSTRUCT DN		875.000 7.2.00				·		• ·	
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	SAMPLE C	1 8 8 9 • 9			4.825.000 I			·				
1	4TE 11/ 1/76	I Iss fosts in mollars <b>595</b>	COST CATEGORY	FMINATION & OF COST CATEGORY TOTAL   & OF FUNDING TYPE TOTAL	FUMDING TYPE TOTAL							

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Item is a contract of the state is a contract of the	ATE 11/	1/76 sample computer run fo	OR FLEX TECHNTONE OF N	HAVMAT LCC M	DDEL		PAGE 9,001	•
Contractions         Contractions<	1203 81	S IN DULLARS SSS	ST BREAKDOWN BY YEAR		SE YEAR#FY7	CONSTANT DOLI	******	٠
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International control of the sector of th		TOTAL LIFE CYCLE	5,860,000	5,378,719	10.088.148	200.07+.11	12.019.347	•
Mutuality Mut	00000	RESEARCH AND DEVELOPMENT	4.885.040	•	•		••	•
111     111 <td>11000</td> <td>VAL 114 1 1 UN Contractor</td> <td>500.000</td> <td>9 6</td> <td>••</td> <td>••</td> <td>• •</td> <td></td>	11000	VAL 114 1 1 UN Contractor	500.000	9 6	••	••	• •	
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<ul> <li>Press Contraction</li> <li>Press Contraction</li> <li>Press Contraction</li> <li>Press Press A contraction</li> <li>Press A contraction</li> <li>Pr</li></ul>	21500	FULL SCALF DEVELOPMENT CONTRACTOR	3.250.000	e 9		•	•	
212700     Ontreet Contraction     279.000     199.000       212100     Description     279.000     299.000       212100     Description     299.000     299.000       212100     Descrotooo     299.000     299.000 <td>121100</td> <td>PRIME CONTRACTOR</td> <td>2,500,000</td> <td></td> <td>•</td> <td>•</td> <td>•</td> <td>•</td>	121100	PRIME CONTRACTOR	2,500,000		•	•	•	•
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993     993 <td>000221</td> <td>GOVERNMENT Udage al Menasement</td> <td></td> <td>6 6</td> <td>• •</td> <td></td> <td>9 9</td> <td></td>	000221	GOVERNMENT Udage al Menasement		6 6	• •		9 9	
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77330     FFT 1 C FULUTION     775.000     775.00	1222	TRAINING TEST SITE AFTIVATION	10.000	•	• •	• •	• •	
INTERVENT         Observation         Observation <thobservation< th=""> <thobservation< th="">         &lt;</thobservation<></thobservation<>	22230	TEST & EVALUATION	275.000	8 9	••	• •		
110000     Miler Factor and Marker of Amage and Am	00000	INVESTEENT	975.000	4.035.250	2.145.500	1.967.900	0	•
Present for watched production watched produ	10000	GOVERNWENT PROGRAM MANAGEMENT Baime foutbuent afoutettion	•	658.000 1.005.000	270,000		•	
77000       PROPACTION SUPPORT & SERVICES       355.000       355.000         72000       FULLATION SUPPORT & SERVICES       35.000       14.000         72000       FULLATION SUPPORT & CLICKTON       75.000       14.000         72000       FULLATION & CLICKTON       75.000       14.000         72000       FULLATION & CLICKTON       75.000       12.000         72000       FULLATION & CLICKTON       75.000       52.000         72000       SUPPORT & CULISTION       75.000       52.000         72000       SUPPORT & CULISTION       75.000       50.000         72000       SUPPORT & CULISTION       75.000       50.000         72000       SUPPORT & CULISTION       75.000       50.000         72000       SUPORT & CULISTION       75.000       50.000         72000       SUPORT & CULIPART       125.000       75.000         72100       SUPORT & CULIPART       125.000       75.000         72220       NAR EARPLY STRIPT       125.000       75.000         722200       SUPORT & CULIPART       125.000       75.000         722200       SUPORT       125.000       75.000         722200       SUPORT       125.000       75.000	21000	PRODUCTION MARDARE		2.500.000	1.500.000		• •	•
73000       FANOLUTION HEAVEORIZION 25000       FAVLUTION FAVLUTION 25000       50000       11000         75000       FAVLUTION FAVLUTION 20000       FEET & EVALUTION 111000       75000       11000         75000       FAVLUTION FAVLUTION 20000       FEET & EVALUTION 20000       75000       110000         75000       FAVLUTION 20000       FEET & FAVLUTION 20000       75000       110000         75000       FAVLUTION 20000       FAVLUTION 20000       75000       110000         75110       FAVLUTION 20000       175000       725000       75000         75111       FAVLUTION 20000       175000       725000       755000         75111       FAVLUTION 20000       175000       755000       755000         75111       FAVLUTION 20000       750000       755000         75111	00u22	PRODUCTION SUPPORT & SERVICES		350,000	•		•••	•
TimeTi	000022	PRODUCTION TEST & EVALUATION	~ ~				•	
30000     INITIAL SUPPORT ACQUISTITION     975.000     1.140.156     312.660     24.000       37100     SUPERY ACQUISTITION     900.000     542.500     542.500     542.600       37111     SUPERY SUPPORT ACQUISTITION     900.000     542.500     542.600       37120     SUPERY SUPPORT ACQUISTITION     900.000     542.600     542.600       37111     SUPERY SUPPORT ACQUISTITION     125.000     542.600     75.600       37110     SUPPORT ACCUIPTION     125.000     542.600     75.600       37110     SUPPORT ACCUIPTION     125.000     75.600     75.600       37110     SUPPORT ACCUIPTION     125.000     75.600     75.600       37110     SUPPORT ACCUIPTION     125.000     75.600     75.600       37110     SUPPORT ACCUIPTION     300.000     75.600     75.600       37400     SUPPORT ACCUIPTION     300.000     75.600     75.600       37410     SUPPORT ACCUIP	25000	INSTALLATION & CHECKOUT	, 0	75.000	45,000	30.000		
37100     Supervision     Supervisio	00000	INITIAL SUPPORT ACOUISITION	975,000	1,180,250	312.540	55.000	•	
3710     INITIAL SARFS     INITIAL SARFS       32210     HALLENE GUIERKUT     INITIAL SARFS       32211     HALLENE GUIERKUT     INITIAL SARFS       32212     HALLENE GUIERKUT     INITIAL SARFS       32220     HALLENE     INITIAL SARFS       32220     HALLENE     INITIAL SARFS       32300     INITIAL SARFS     INITIAL SARFS       32300     INITIAL SARFS     INITIAL SARFS       32300     INITIAL SARFS     INITIAL SARFS       32400     INITIAL SARFS     INITIAL SARFS       32500     INITIAL SARFS     INITIAL SARFS	00016.	SUPPORT & TEST EQUIPMENT ACOUISITION Support Support	105.000	02-500	•		9 0	
37:110       Refer Equipment       25:000       5:000       5:000         37:212       New Expont into THE SUPPLY SYSTEM       125:00       5:000       7:5:00         37:310       New Expont into THE SUPPLY SYSTEM       125:00       7:5:00       7:5:00         37:310       OFF-ATTOM       100:000       7:5:00       7:5:00       7:5:00         37:310       OFF-ATTOM       300:000       7:5:00       7:5:00       7:5:00         37:400       MaintFrance       300:000       7:5:00       7:5:00       7:5:00         37:400       MaintFrance       300:000       7:5:00       7:5:00       7:5:00         37:400       MaintFrance       300:000       7:5:00       7:5:00       7:5:00         37:401       MaintFrance       37:5:00       2:0:000       2:5:00       2:5:00         37:401       MaintFrance       37:5:00       3:1:000       2:5:00       1:0:000         35:5:00       MaintFrance       3:1:000       2:5:00       2:5:00       2:5:00         35:5:00       MaintFrance       3:1:000       3:1:000       2:5:00       1:0:000         35:5:00       MaintFrance       3:1:000       2:5:00       1:0:000       2:5:00	10125	INITIAL SPARFS	124.000	500.000	•	•		
32720     Nave Net Y     No. 10 The Supply System     125,000     125,000       33110     Archittes     111163     155,000     155,000       33110     Archittes     155,000     155,000     155,000       33110     Archittes     155,000     155,000     155,000       33110     Archittes     155,000     275,000     275,000       33110     Archittes     300,000     260,000     275,000       33110     Archittes     300,000     260,000     275,000       33110     Archittes     300,000     260,000     275,000       33110     Archittes     317,500     261,000     261,000       33110     Archittes     317,500     317,500     261,000       33110     Archittes     317,500     25,000     27,500       33110     Archittes     317,500     25,000     25,000       33110     Archittes     317,500     25,000     25,000       335,500     Archittes     317,500     25,000     25,000       335,500     Archittes     317,500     25,000     25,000       335,500     Archittes     31,500     25,000     31,500       335,500     Archittes     31,500     31,500     31,500   <	011264	PRIME EQUIPMENT		200.000	•	•		9
73300     FACILITES     550.000     275.000     275.000       73100     OFFATTONAL     ACTULITES     550.000     275.000       73100     ACTULITES     ACTULITES     750.000     755.000       73100     ACTULITES     750.000     755.000     755.000       73100     ACTULITES     300.000     750.000     755.000       73100     ACTULITES     300.000     755.000     755.000       73100     ACTULITES     755.000     755.000     755.000       73100     ACTULITES     755.000     755.000     755.000       731100     ACTULITES     790.000     755.000     755.000       731100     ACTULITES     790.000     750.000     750.000	002254	NUTRE A LESI RELITION AND AND AND AND AND AND AND AND AND AN		42.500	9 4	9 4	9 4	
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337200       Mainfrance       200,000       250       200,000         32400       Acoustistion       300,000       250       200,000         33400       Acoustistion       300,000       250       200,000         334100       Acoustistion       300,000       250       200,000         334100       Acoustistion       300,000       250       250         334100       Acoustistion       300,000       250       250         334100       Acoustistion       31,500       31,500       25,000         334100       Acoustistion       31,500       25,000       15,000         335500       Acoustistion       Acoustistion       31,500       25,000         335500       Acoustistion       Acoustistion       31,500       25,000         335500       Acoustistion       Acoustistion       Acoustion       400,000      <	OULCEA	<b>DPFWATTONAL</b>	0	150.000	15.000	•	-	•
35700     ACOUNTATION     ACOUNTATION     ACOUNTATION       732700     AFPAGOUCTION AND DISTRIAUTION     300,000     250       732700     AFPAGOUCTION AND DISTRIAUTION     50,000     37,500       732700     AFPAGOUCTION     AND DISTRIAUTION     50,000       732700     AFPAGOUCTION     AND DISTRIAUTION     50,000       73500     AFPAGOUCTION     AND DISTRIAUTION     25,000       735100     AFPAGOUCTION     AND DISTRIAUTION     25,000       735100     AFPAGOUCTION     AND SUPPORT     15,000       735500     AND SUPPORT     31,500     25,000       735500     AND SUPPORT     0     15,000       735500     AND SUPPORT     0     15,000       735500     AND SUPPORT     0     15,000       735500     AND SUPPORT     0     0       735500     AND SUPPORT     0     0	002163	TATANCE		400.000	200.000	•	•••	ł
33700       71       1500       37.500       25.000       25.000       25.000         37.100       71       15.000       15.000       15.000       15.000       15.000         37.100       71       15.000       15.000       15.000       15.000       15.000         37.500       71       15.000       15.000       15.000       15.000       15.000         37.500       71       15.000       15.000       15.000       15.000       15.000         37.500       71       15.000       15.000       15.000       15.000       15.000         37.500       75.000       15.000       15.000       15.000       15.000       15.000       15.000         37.500       75.000       15.000       15.000       15.000       15.000       15.000       15.000       15.000         37.500       75.000       15.000 <t< td=""><td>90096</td><td></td><td></td><td></td><td>•</td><td></td><td></td><td>9</td></t<>	90096				•			9
1.0.0     7.410144     25.000     37.500     25.000     37.500     25.000       0.1     1.1     1.1     1.1     1.1     1.1     0       0.1     1.1     1.1     1.1     1.1     0     1.1       0.1     1.1     1.1     1.1     1.1     0     1.1       0.1     1.1     1.1     1.1     1.1     0     1.1       0.1     1.1     1.1     1.1     1.1     0     0       0.1     1.1     1.1     1.1     1.1     0       0.1     1.1     1.1     1.1     1.1     1.1       0.1     1.1     1.1     1.1     1.1     1.1	004464	REPRODUCTION AND DISTRIBUTION		250	•	•		
355100       00FHATOR       0       25,000       15,000       10,000         355200       71501       15,000       15,000       15,000       0       0         755300       71500       71500       22,500       15,000       0       0       0         755300       71500       71500       22,500       15,000       0       0       0       0         755300       71500       15,000       0	¢. ¢.	T A [ N ] NG	50,000	87,500	37,508	25,000	0	•
75500     77971     LEVEL MAINTENANCE     0     10,000     0     0     0       75500     785100     0     15,000     0     0     0     0     0       75500     785100     0     15,000     0     0     0     0     0       75500     78100     10,100     0     0     0     0     0     0       75500     78100     10,100     0     0     0     0     0     0       75500     78100     10,100     0     0     0     0     0     0       75500     7912,000     7,912,000     10,100,000     0     0     0     0	235100	OPFNATOR A.T. STUTT MARKENDAR	•	25.000	15.000			
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	00000	OPERATING AND SUPPORT	•	543,469	7.942.648	10.406.892	11.949.347	)
	00000	OPERATING AND SUPPORT	•	543,469	7.942.648	10.406.892	11.944.347	) :

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<ul> <li>Just Condita Mar for Lift Technolog On Maria (CE. Molt.)         </li> <li>Just Condita Mar for Lift Technolog On Maria (CE. Molt.)         </li> <li>Just Condita Mar for Lift Technolog On Maria (CE. Molt.)         </li> <li>Just Marrian Maria (CE. Molt.)         </li> </ul> <ul> <li>Just Condita Mar for Lift Technolog On Maria (CE. Molt.)         </li> <li>Just Marrian Maria (Maria (Maria</li></ul>	
Instruction     Description     Description     Description       ALLAR STATE CONTRA MAR For Fractioner of many fragments     Description     Description       ALLAR STATE CONTRA MAR For Fragments     Descr	Distant     Distant     Distant     Distant     Distant       1 Muturi 13     Distant     Dis
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<ul> <li>JAMEL COMUTER RUM FOR FLY. TECNIFICAE OF ALMAT. LEC. MORL.</li> <li>JAMEL COMUTER RUM FOR FLY. TECNIFICAE OF ALMAT. LEC. MORL.</li> <li>JALLARS 13.</li> <li>JALLARS 14.</li> <lijallars 14.<="" li<="" td=""><td>IDD     SAME COMPUTE AIM FOR FLY TECNIOLE OF MANAT LCC MORE.       IN DOLLAS 33     COST DECADOM NY YEAR       IN DOLLAS 34     COST DECADOM NY YEAR       IN DOLLAS 35     COST DECADOM NY YEAR       IN DOLLAS 34     COST DECADOM NY YEAR       IN DOLLAS 35     COST DECADOM NY YEAR       IN DOLLAS 36       IN DOLLAS 36</td></lijallars></ul>	IDD     SAME COMPUTE AIM FOR FLY TECNIOLE OF MANAT LCC MORE.       IN DOLLAS 33     COST DECADOM NY YEAR       IN DOLLAS 34     COST DECADOM NY YEAR       IN DOLLAS 35     COST DECADOM NY YEAR       IN DOLLAS 34     COST DECADOM NY YEAR       IN DOLLAS 35     COST DECADOM NY YEAR       IN DOLLAS 36       IN DOLLAS 36
<ul> <li>SAMPLE COMPUTER RUM FOR FLEX TECHNIAUE OF NUMM' LCC MD</li> <li>CULLAS 33</li> <li>COST BREADOWN STRUCTURE ELEMENT</li> <li>COST BREADOWN STRUCTURE</li> <li>COST CONT LEVEL</li> <li>COST L</li></ul>	173 SAME COMUTER RUM FOR FLEX TECHNIQUE OF NUMMY LCC MD 14 DOLLARS 33 AMPLE COMPUTER RUM FOR FLEX TECHNIQUE OF NUMMY LCC MD 14 DOLLARS 33 CONTURE ELEMENT FTTT FTTT Cost BREADOWN STRUCTURE ELEMENT FTTT FTTT Cost BREADOWN STRUCTURE ELEMENT FTTT FTTT Cost BREADOWN STRUCTURE ELEMENT FTTTT Cost BREADOWN STRUCTURE ELEMENT FTTTT Cost BREADOWN STRUCTURE ELEMENT FTTTT Cost BREADOWN STRUCTURE ELEMENT FTTTTT Cost BREADOWN STRUCTURE ELEMENT FTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
<ul> <li>SAMPLE COMPUTER NUM FOR FLAX TECHNIQUE OF 1</li> <li>DOLLARS 333</li> <li>DOLLARS 333</li> <li>COST BREAKDOWN STRUCTURE ELEMENT</li> <li>COST BREAKDOWN STRUCTURE</li> <li>COST BREAKDOWN STRUCTURE</li></ul>	1/14 SAMPLE COMPUTER RUM FOR FLY TECHNIQUE OF 1 N DOLLARS \$33 COST BREATDOWN STRUCTURE ELEMENT COST BREATDOWN STRUCTURE ELEMENT TO COST BREATDOWN STRUCTURE ELEMENT TYTT COST BREATDOWN STRUCTURE ELEMENT TYTT OPENITUR DEFRATION DEFRATIO
<ul> <li>SAMPLE COMPUTER RUM FOR SAMPLE COMPUTER RUM FOR COST BREAKDOWN STAUCTURE ELEMENT</li> <li>COST BREAKDOWN STAUCTURE</li> <li>COST LEVEL INE RAINTENANCE</li> <li>STANSDORTTION</li> <li>BREAKTION</li> <li>STANSDORTTION</li> <li>DOT LEVEL MAINTENANCE</li> <li>STANSDORTTION</li> <li>DOT LEVEL INE RAINTENANCE</li> <li>STANSDORTTION</li> <li>DOT LEVEL MAINTENANCE</li> <li>STANSDORTTION</li> <li>STANSDORTTION</li> <li>STANSDORTTION</li> <li>STANSDORTTION</li> <li>STANSDORTTION</li> <li>DOT LEVEL MAINTENANCE</li> <li>STANSDORTTION</li> </ul>	17.6 SAMPLE COMPUTER RUM FOR 1. IN DOLLANS 333 COST COST BREAKDOWN STRUCTURE ELEMENT COST BREAKDOWN STRUCTURE ELEMENT COST BREAKDOWN STRUCTURE ELEMENT COST BREAKDOWN STRUCTURE ELEMENT COST BREAKDOWN STRUCTURE ELEMENT AFREAL MAINTEMANCE COST BREAKDOWN STRUCTURE ELEMENT AFREAL MAINTEMANCE COST BREAKDOWN STRUCTURE ELEMENT AFREAL MAINTEMANCE COST BREAKDOWN STRUCTURE ELEMENT COST CONSTRUCTION AND ARCENT COST LEVEL COST CONSTRUCTION AND ARCENT COST CLEVEL COST
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Initial Superior Counstration     2.40000     1.1     1.2     5.4       Initial Superior Counstration     5.00000     1.1     1.4     1.1       Initial Superior Counstration     5.00000     1.1     1.4     1.4       Initial Superior Counstration     5.00000     1.1     1.4     1.4       Initial Superior Counstration     5.00000     1.1     1.4     1.4       Initial Superior Superior     1.2     1.4     1.4     1.4       Initial Superior     1.5     5.0000     1.1     1.4       Initial Superior     1.5     5.0000     1.1     1.4       Initial Superior     1.5     5.0000     1.1     1.4       Initial Superior     1.5     1.2     1.4     1.4       Initial Superior     1.5     1.5     1.4     1.4       Initial Superior     1.5     1.5     1.4     1.4       Initial Superior     1.5     1.5     1.4     1.4       Initial Superior     1.5     1.4     1.4     1.4       Initial Superior     1.5     1.4     1.4     1.4       Initial Superior     1.5     1.5     1.4     1.4       Initial Superior     1.5     1.4     1.4     1.4       Initi		TARASTORIALLON L PARTANIT				
000       Superiert & TEST FOUIPHENT ACOULSTITION       500.000       [1,1]         110       NUTLL, SARRE       667.550       [1,1]         111       PHIAE FOUIPHENT ACOULSTITION       667.550       [1,1]         111       PHIAE FOUIPHENT ACOULSTITION       657.550       [1,1]         111       PHIAE FOUIPHENT ACOULSTITION       650.000       [1,1]         111       PHIAE FOUIPHENT       650.000       [1,1]         111       PHIAE FOUIPHENT       650.000       [1,1]         112       Supering Actuality       75.000       [1,1]         111       PHIAE FOUIPHENT       27.000       [1,1]         111       PHIAE FOUIPHENT       27.000       [1,1]         111       PHIAE FOUIPHENT       27.000       [1,1]         111       PHIAE FOUIPHENT	606	INITIAL SUPPORT ACQUISITION	2.497.750			•
000     Supery Support     647:500     1.1     1.4       110     WHIRE FOURPRAT     57:000     1.1     1.4       120     WHIRE FOURPRAT     57:000     1.1     1.4       120     WURE FOURPRAT     57:000     1.1     1.4       120     WURE FOURPRAT     57:000     1.1     1.4       120     WURE FOURPRAT     1.5:000     1.1     1.4       120     WURE FOURPRAT     1.5:000     1.1     1.4       120     MURE FOURPRAT     1.5:000     1.1     1.4       120     MURE SUPPLY SYSTEM     27:000     1.1     1.1       120     MURE SUPPLY SYSTEM     27:000     0.1     1.1       120     MURE SUPPLY SYSTEM     1.2:000     0.1     1.1       110     MURE SUPPLY SYSTEM     27:000     0.1     1.1       111     MURE SUPPLY SYSTEM     1.1     1.1     1.1       111     MURE SUPPLY SYSTEM     1.1     1.1<	UUU	SUPPORT & TEST EQUIPMENT ACQUISITION	500.000		1.1	
100     INITAL SPARES     63:000     1.1       111     WILHE FOURPHENT     63:000     1.1       200     WELME FOULPHENT     12:000     1.1       200     NEW ENTER INTO THE SUPPLY SYSTEM     22:000     1.1       200     FACTINGL     22:000     1.1       200     OFTANTINGL     22:000     1.1       200     OCTUMENTON     23:000     0.1       201     TEVEL     AINTENANCE     0.1       201     OCTUMENTON     23:000     0.1       201     OCTUMENTON     23:000     0.1       201     OCTUMENTON     23:000     0.1       201     OCTUMENTON     23:000     0.1       201     OCTUMENTON     23:	000	SUPPLY SUPPORT	667+508			
110     PRIME EQUIPMENT     500000     1.1       200     FACILITIES     1.255000     1.3       200     FACILITIES     1.255000     1.3       200     FACILITIES     1.255000     1.3       200     FACILITIES     1.4     1.4       200     FACILITIES     225000     1.3       200     COUNENTTIONAL     2250000     1.3       200     DOCUMENTATIONAL     2250000     1.3       200     DOCUMENTATIONAL     2200000     1.3       200     DOCUMENTATIONAL     2200000     1.3       200     DOCUMENTATIONAL     2200000     1.4       200     DOCUMENTATIONAL     200000     1.1       201     DOCUMENTATIONAL     200000     1.1 <tr< td=""><td>001</td><td>INITIAL SPARES</td><td>625 + 000</td><td></td><td>•</td><td></td></tr<>	001	INITIAL SPARES	625 + 000		•	
700     Were kind in the Supervit     125,000     0.3       700     Were kind in the Supely System     125,000     0.3       100     FACILITES     1.3     1.3       100     FACILITES     225,000     0.3       100     Wereky find     225,000     0.3       100     Wereky find     225,000     0.3       100     Wereky find     225,000     0.3       100     Maintende     300.000     0.3       100     Acquisition     2.4     0.0       100     Acquisition     2.4     0.3       100     Acquisition     2.4     0.4       100     Acquisition     2.4     0.4       100     Acquisition     2.4     0.4       100     Actilia     2.4     0.4       100     Actilia     2.4     0.4       1100     Actilia     2.4     0.4       1100     Actilia     2.4     0.4       1100     Actilia     1.4     0.4 </td <td>611</td> <td></td> <td>500.000</td> <td></td> <td></td> <td></td>	611		500.000			
000     FALLUTES     425:500     1.0       000     FALLUES     600:000     1.3       000     FALLUES     225:000     0.3       000     FALLUES     225:000     0.3       000     OCUMENTION     200:000     0.3       100     ATTIONAL     225:000     0.3       100     ATTIONAL     200:000     0.3       100     ATTION     300:250     0.7       100     ATTION     200:000     0.1       100     ATTION     200:000     0.1       100     ATTING     200:000     0.1       100     ATTING     100000     0.1       100     ATTING     100000     0.1       100     ATTING     100000     0.1       100     ATTING     10000     0.1       100     ATTING     10000     0.1       100     ATTING     10000     0.1       100     ATTING     10000 <td>120</td> <td>Support &amp; TEST COUPWENT</td> <td>125.000</td> <td></td> <td></td> <td></td>	120	Support & TEST COUPWENT	125.000			
700     775,000		NSN ENTRY INTO THE SUPPLY SYSTEM		•		
000     000     000     000     000     000       001     000     000     000     000     000       000     000     000     000     000     000       000     000     000     000     000     000       000     000     000     000     000     000		7 AC   L   1 2 5		•		
000     000000000000000000000000000000000000		JPF WAT JONAL	000-522	•		
200     DFPATING     300.000     0.0       200     FPAHODUCTION AND DISTRIAUTION     200.000     0.0       200     THAINING     200.000     0.0       200     DFFAHUCTOR     200.000     0.0       200     DFFAHUCTOR     200.000     0.0       200     DFFAHUCTOR     200.000     0.0       200     DFFATING AND SUPPORT     15.000     0.1       200     DFFATING AND SUPPORT     15.000     0.1       200     DFFATING AND SUPPORT     15.000     0.1       200     DFFATING AND SUPPORT     30.662.307     0.1				•		•
200     RF400UCTION AND DISTRIAUTION     290     0.0       100     THAINING     200.000     0.1       100     THAINING     200.000     0.1       200     DY LEVEL MAINTFNANCE     75.000     0.1       200     DY LEVEL MAINTFNANCE     75.000     0.1       200     DY LEVEL MAINTFNANCE     15.000     0.1       201     DY LEVEL MAINTFNANCE     15.000     0.1       202     DY LEVEL MAINTFNANCE     15.000     0.1       203     TRAINING AND SUPPORT     30.662.307     0.1						
100     THAINING     200.000     0.1       100     OFFATOR     200.000     0.1       200     OFILEVEL MAINTFMANCE     75.000     0.1       200     OFILEVEL MAINTFMANCE     15.000     0.1       200     TEATURE     15.000     0.1       300     TEATURE     15.000     0.1       300     TEATURE     15.000     0.1       300     TEATURE     15.000     0.1       300     OPERATING AND SUPPORT     30.662.307     0.1		prophity:A an attainity.				
000     00FATOR     0.1       200     0.1     1.4       200     0.1     1.4       200     0.1     1.4       200     0.1     1.4       200     0.1     1.4       200     0.1     1.4       200     0.1     1.4       200     0.1     1.4       200     0.1     1.4       200     0.1     0.0       200     000     0.1		TATAGOULOW AND ULBERTOULOW				
00         0/1 LEVEL MAINTFNANCE         75,000         0.1           00         0FPATING AND SUPDRT         10,000         0.1           00         0FEATING AND SUPDRT         30,662,307         0.1						
000         DFPAT LEVEL MAINTENANCE         10.000         0.000           400         TWAINTENANCE         10.000         0.000           400         TWAINTENANCE         10.000         0.000           400         TWAINTENANCE         10.000         0.000           400         DPERATING AND SUPPORT         0.1         60.0		DAT LEVEL MATHTEMANTE			- 4	
400 TRATING AIDS 50:000 00ERATING AND SUPPORT 30:062:307 0.1 60.0	300	DEPOT LEVEL MAINTENANCE		•		
500 TRAINIMA AIDS 50.000 50.000 0.1 60.9	404	1 as THUCTOR	14.000	•		
000 OPERATTWA AND SUPPORT 30.662.307 64.9	500	TRAINING AIDS	50.000	•		
	000	GPEPATING AND SUPPORT	105-648-61	-		

No. 11/1/10     Land Converte number of Annal Let Hold     Annal Let Hold     Annal Let Hold       1 - 11/1     - 11/1     - 11/1     - 11/1     - 11/1       1 - 11/1     - 11/1     - 11/1     - 11/1     - 11/1       1 - 11/1     - 11/1     - 11/1     - 11/1     - 11/1       1 - 11/1     - 11/1     - 11/1     - 11/1     - 11/1       1 - 11/1     - 11/1     - 11/1     - 11/1     - 11/1       1 - 11/1     - 11/1     - 11/1     - 11/1     - 11/1       1 - 11/1     - 11/1     - 11/1     - 11/1     - 11/1       1 - 11/1     - 11/1     - 11/1     - 11/1     - 11/1       1 - 11/1     - 11/1     - 11/1     - 11/1     - 11/1       1 - 11/1     - 11/1     - 11/1     - 11/1     - 11/1       1 - 11/1     - 11/1     - 11/1     - 11/1     - 11/1       1 - 11/1     - 11/1     - 11/1     - 11/1     - 11/1       1 - 11/1     - 11/1     - 11/1     - 11/1     - 11/1       1 - 11/1     - 11/1     - 11/1     - 11/1     - 11/1       1 - 11/1     - 11/1     - 11/1     - 11/1     - 11/1       1 - 11/1     - 11/1     - 11/1     - 11/1     - 11/1       1 - 11/1<			-		• •	
TULULO     MALLICATION     LOUIDAL LIGNAL     MALLICATION     MALLICATION       1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0       1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0       1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0       1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0       1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0       1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0       1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0       1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0       1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0       1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0       1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0       1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0       1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0       1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0     1 11 11.0       1 11 11 11.0     1 11 11.0     1 11 11.0 <td< th=""><th></th><th>•</th><th></th><th></th><th></th><th></th></td<>		•				
NET 11.110.     Same Control for 11.1.1 (Control of C)     MANT [CC MOL     MANT [CC MOL     MANT [CC MOL       1     011     MAL     011     MAL     MAL     MAL       1     011     MAL     MAL     MAL     MAL     MAL       1     MAL     MAL     MAL     MAL     MAL       1     MAL     MAL     MAL     MAL     MAL       1     MAL     MAL		<u>*</u>				
1     1 <th1< th="">     1     1     1     1<td><b>TE 11</b>/</td><td>1/76 SAMPLE COMPUTER RU</td><td>IN FOR FLEX TECHNICHE OF N</td><td>IVHAT LCC MODEL</td><td></td><td>E 10.001</td></th1<>	<b>TE 11</b> /	1/76 SAMPLE COMPUTER RU	IN FOR FLEX TECHNICHE OF N	IVHAT LCC MODEL		E 10.001
Mark     Mark       Automatic     Control       Automatic     Control<	\$ COSTS	TH DOLLARS 355	COST BREAKDOWN TOTALS	Alauvza zevene	77 +CONSTANT DOLLARS****	•
Martine     Martine	CAST E & CDANK BUCTUME	COAT BREAKDOWN STRUCTURE ELEMENT	TATAL ADUISTED CAST	(	F TQTAL A <b>djusted Cost</b> Total Life Cycle	
Internation (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		OPFRATION	81050.760		10.0	
Internation         Internation         Internation         Internation           Internation         Internation         Internation         <	12000	PFRSMMEL Facti Ities	3+524+758		• · ·	•
Mathematical contribution         Math	644C [	FREAT CONSUMPTION	900 - 908			
Manual Constrained         Manual Constrained         Manual Constrained         Manual Constrained           0.11         Unit Manual Constrained         Unit Manual Constrained         0.11         Unit Manual Constrained         Unit Manual Constraine         Un		SAFTWARE WAINTEMANCE				
111     111 <td>20004 20004</td> <td>SUBPART Posefilve Maintenante</td> <td>22.A]],547 12.470-290</td> <td></td> <td>00°05 77't</td> <td></td>	20004 20004	SUBPART Posefilve Maintenante	22.A]],547 12.470-290		00°05 77't	
2111     0.1 LVEL (REALED     777,000     1.2       2111     0.1 LVEL (REALED     777,000     1.277,000       2111     PARTIAL AND ALCOLOR     757,000     1.277,000       2111     PARTIAL     757,000     1	21100		210000000000000000000000000000000000000	9.0		
1     1 <td>21110</td> <td>0/1 LFVEL (REMOVE &amp; REPLACE)</td> <td>800.829 1011.829</td> <td>1.8</td> <td></td> <td></td>	21110	0/1 LFVEL (REMOVE & REPLACE)	800.829 1011.829	1.8		
27300     Taxasternarizition, and accusing a strent witching, and for and a strent, windling, and for and a strent, windling, and for and a strent, windling, and for and a strent, and accusing a strent witching, and accusing a strent witching, and a strent, and a strent, a strent,	1130	071 LEVEL (MEPAIN) Nepot Level (Repair)	5335937	2°1		
21100     TATE ALL ALLANDARING     TATE ALLANDARIA     TATE ALLANDARIA       21110     TATE ALLANDARIA     TATE ALLANDARIA     TATE ALLAND	21700	RFPALR MATERIAL	6.540.523			
1000000000000000000000000000000000000	00512	TRANSPORTATION AND PACKAGING Material Mandiing Labor	4.520.951	6.2 6.2	-	
27130     envertige     700.057     0.0       27130     envertige     100.057     0.0       27130     envertige     100.05     0.0       27100     1.400     1.400     0.0       27200     internat     1.500     0.0       2710     internat     1.500     0.0       2710     internat     0.000     0.0       2710	02612	PACKARING MATERIAL	1.346.795	1.6		
77700     777000     777000     777000       77700     777000     777000     777000       77700     77700     777000     777000       77700     77700     777000     777000       77700     77700     77700     77700       77700     77700     77700     77700       77700     77700     77700     77700       77700     77700     77700     77700       77700     77700     77700     77700       77700     77700     77700     77700       77700     77700     77700     77700       77700     77700     77700     77100       77700     77100     77100     77100       77100     77100     77100     77100       77100     77100     77100     77100       77100     77100     77100     77100       77100     77100     77100     77100       77100     77100     77100     77100       77100     77100     77100     77100       77100     77100     77100     77100       77100     77100     77100     77100       77100     77100     771000       77100     77100     <	21330	ANTPP 306 Bosushtive Mainteninge	360.567 704.205	8.0	-	
77200     WERFALL     336.000     0.7       73100     UNERTAL     336.000     0.7       73100     UNERTAL     336.000     0.7       73100     UNERTAL     336.000     0.7       73100     UNERTAL     165.312     0.7       73100     UNERTAL     155.312     0.6       73100     UNERTAL     174.5000     0.1       73100     FICILITIE     1757.000     0.1       73100     FICILITIE     0.0     1.2       73100     FICILITIE     0.1     1.2       73110     FICILITIE     0.1     1.2       73110     FICILITIE     0.0     1.2       73110     FICILITIE     1.2     1.2       73110     FICILITIE     1.2     1.2       73110     FICILITIE     1.2     1.2       73110 </td <td>22100</td> <td>LADR ALMENANCE</td> <td>370.205</td> <td></td> <td></td> <td></td>	22100	LADR ALMENANCE	370.205			
73000     I AMANG     J STATIC     J STATIC<	22200	MATERSAL	336.000	0		
73200     MAXEGRAL     MAXEGRAL     MAXEGRAL       73100     SUPPORTATION     SUPPORTATION     MAXEGRAL       74100     SUPPORTATION     SUPPORTATION     MAXEGRAL       74110     SUPPORTATION     SUPPORTATION     MAXEGRAL       74110     SUPPORTATION     SUPPORTATION     MAXEGRAL       74111     SUPPORTATION     SUPPORTATION     MAXEGRAL       74111     SUPPORTATION     MAXEGRAL     MAXEGRAL       74111     SUPPORTATION     SUPPORTATION     MAXEGRAL       74111     SUPPORTATION     MAXEGRAL     MAXEGRAL       7411     REPORTATION     MAXEGRAL     MAXEGRAL       7411     SUPPORTATION     MAXEGRAL     MAXEGRAL       7411     MAXEGRAL     MAXEGRAL     MAXEGRAL	000E2	OVF PHAUL I AROR	375.312		1 ° 0	
73700     STRANGOMINTION     0.1       73700     STRANGOMINTION     0.1       7400     STRANGOMINTION     0.1       7400     STRANGOMINTION     0.1       7400     STRANGOMINTION     0.1       7400     STRANGOMINTION     0.1       7410     STRANGOMINTION     0.1       7411     STRANGOMINTION     0.1       7412     STRANGOMINTION     0.1       7411     STRANTON     0.1       7411<	23200	HATERIAL	120.000			
73000       FALLITIES       Contraction       2:1       1:3         73100       FALLUTIES       Contraction       2:1       1:3         73100       FALL       Contraction       0:0       0:0       0:0         73100       FALL       FALL       Contraction       0:0	DOLES	TRANSPORTATION				
75100     57100     5710	25000	SUPPOPER TEST EQUIPMENT MAINTENANCE Factuities				
25110     0.11 LEVEL     900000     2.1       255120     TWVENTICEVEL     900000     2.1       257210     TWVENTICEVEL     900000     2.1       257210     TVVENTICEVEL     900000     2.1       27700     TVVENTICEVEL     900000     2.1       27700     TVVENTICEVEL     900000     2.1       27700     TVVENTICEVEL     900000     2.1       27700     TVVENTICEVEL     9.0000     0.1       27700     TVVENTICE     1.30000     0.1       27700     TVVENTICE     1.1000     0.1       27700     TVVENTICE<	25100	SHAP SPACE	044.146	2.		
73010       TURENTON CERT       00,000       2,1         73010       0,1       1,1       0,1         73010       0,1       1,1       0,1         73010       0,1       1,1       0,1         73010       0,1       1,1       0,1         73010       0,1       1,1       0,1         73010       0,1       1,1       0,1         73010       0,1       1,1       0,1         73010       0,1       1,1       0,1         73010       0,1       1,1       0,1         73010       0,1       1,1       0,1         73010       0,1       1,1       0,1         73010       0,1       1,1       0,1         73010       0,1       1,1       0,1         73100       0,1       1,1       0,1         73100       0,1       1,1       0,1         73100       0,1       1,1       0,1         73100       0,1       1,1       0,1         73100       0,1       1,1       0,1         731000       0,1       1,1       0,1         731000       0,1       1,1       0	25110	n/1 LEVEL	968.000	2.1		
7/1     LEVEL     7/1     LEVEL     2.1       7520     00.0000000000000000000000000000000000	25200	DYPGA LEVEL Thvéntov starage	844•1		_	
75720       DFP01 LEVEL       2:00       0.0         7000       SUPPLY	55710	n/I LEVEL	000 006	2.1	•	
27100       SUPPLY SUPPORT       4:567:00       4:567:00         27100       RFPLENISHMENT SPARES       4:567:00       0.4         27100       RFPLENISHMENT SPARES       4:567:00       0.4         27100       RFPLENISHMENT SPARES       4:597:00       0.4         27100       RFPLENISHMENT SPARES       4:597:00       0.4         27100       RFPLENISHMENT SPARES       4:597:00       0.4         27100       RFILENISHMENT SPARES       1:1000       0.4         27100       RFATOR       1:1000       0.4       0.3         27100       RFATOR       1:1000       0.4       0.4         27000       RFATOR       1:1000       0.4       0.3         27000       RFATOR       1:1000       0.4       0.4	25220	DEPOT LEVEL ActiveEntition Literature		<b>9</b> •0		
27200     FFLENISHMENT SPARES     4.397.001     9.6       27200     TWENTORY HANAGENET     170.000     0.1       28100     TRATHING     54.000     0.1       28100     TRATHING     54.000     0.1       28100     TRATHING     54.000     0.1       28100     TATHING     54.000     0.1       27100     TEVEL HAINTENANCE     74.000     0.1       27100     TEVEL HAINTENANCE     50.000     0.1       27100     TEVEL HAINTENANCE     74.000     0.1       27100     TEVEL HAINTENANCE     74.000     0.1       27000     TEVEL HAINTENANCE     74.000     0.1       27000     TEVEL HAINTENANCE     74.000     0.1       20000     TERMINATION     50.000     0.1       27000     TEVEL	27000	UNULUMENTATION MAINTENANCE Suiddi y suddart				
27200       TUVENTORY MANAGENT       170.000       0.4         27100       7141100       54.000       0.1         27200       711       154.000       0.1         27200       711       154.000       0.1         7100       711       154.000       0.1         7100       71       1570       0.1         7100       71       14.000       0.2         7100       74.000       0.2       0.3         7100       74.000       0.2       0.3         7100       74.000       0.2       0.3         7100       74.000       0.1       0.3         7100       74.000       0.1       0.3         7100       74.000       0.1       0.3         71000       74.000       10.000       0.1         7000       74.000       74.000       0.1         7000       74.000       74.000       0.1         7000       74.000       74.000       0.1         7000       74.000       74.000       0.1         7000       74.000       74.000       0.1         7000       74.000       74.000       0.1      1	27100	REPLENISHMENT SPARES	100.400.4			
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V. 17%     SAMALE COMPUTER ANN FOR FLEX TECHTIQUE OF ANYMAT LCC NO       S13 IN DOLLARS 43     SAMALE COMPUTER ANN FOR FLEX TECHTIQUE OF ANYMAT LCC NO       S13 IN DOLLARS 43     MATRIY OF VALUES FOR THE SEMITIVITY ANLYSIS     Anamata       RMMERIA 10     0.30     0.31     0.30     0.30       MATRIY 0F VALUES FOR THE SEMITIVITY ANLYSIS     Anamata     Anamata       MATRIX 0F VALUES FOR THE SEMITIVITY ANLYSIS     Anamata       MATRIX 0F VALUES FOR THE SEMITIVITY ANLYSIS OF VARIANE       MATRIX 0F VALUES FOR THE SEMITIVITY ANLYSIS OF VARIANE       MATRIX 10.0     0.30     0.31     0.30       MATRIX 10.0     0.31     0.31     0.30     0.30       MATRIX 10.0     0.31     0.31     0.30     0.30     0.30       MATRIX 10.0     0.31     0.31     0.31     0.31     0.31       MATRIX 10.0     0.30     0.30     0.30     0.30     0.30       MATRIX 10.0     0.30     0.30     0.30     0.30     0.30       MATRIX 10.0     0.30     0.30     0.30     0.30 <td></td> <td>קנו</td> <td>E YEAR-FY77</td> <td>R 1.20</td> <td></td> <td>00.000</td> <td>1044.00</td> <td>306.08 480.08</td> <td>720.00 1080.00</td> <td>420.00</td> <td>420.00</td> <td>940°00</td> <td>1440.00 1600.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>alutria diniti</td>		קנו	E YEAR-FY77	R 1.20		00.000	1044.00	306.08 480.08	720.00 1080.00	420.00	420.00	940°00	1440.00 1600.00								alutria diniti
J. J. J. J.     Same L Computes Run For LEX TECHNICUE of Multiple       S13 IN DOLLARS \$13     SMATE COMPUTER RUN FOR T.EX TECHNICUE of Multiple       S13 IN DOLLARS \$13     MATRIX OF VALUES FOR THE SENSITIVITY AMLYSIS of T       S14 IN DOLLARS \$14     MATRIX OF VALUES FOR THE SENSITIVITY AMLYSIS of T       S15 IN DOLLARS \$15     MATRIX OF VALUES FOR THE SENSITIVITY AMLYSIS of T       MATRIX OF VALUES FOR THE SENSITIVITY AMLYSIS of T     MATRIX OF VALUES FOR THE SENSITIVITY AMLYSIS of T       MATRIX OF VALUES FOR THE SENSITIVITY AMLYSIS OF T     0.010     0.010       MATRIX OF VALUES FOR THE SENSITIVITY AMLYSIS OF T     0.010     0.010       MULL     0.10     0.010     0.010     0.010       MULL     0.01     0.010     0.010     0.010       MULL     0.010		MAT LCC NO	197248888	VARIARLE   7 1.10		525.00 550.00	957.00 660.00	275.00	660.00 990.00	345.00	345,00	770.00	1320.00 1650.00					·		à.	ille alla di anna di secondo
V. 17%     SAMPLE COMPUTER RUM FOR FLEX TECHN       S13 IN DOLLARS 333     MATRIX OF VALUES FOR THE SEMSTITUUTY A       S14 IN DOLLARS 334     MATRIX OF VALUES FOR THE SEMSTITUUTY A       S15 IN DOLLARS 334     MATRIX OF VALUES FOR THE SEMSTITUUTY A       MMM.		TOUE OF NAV	NAL YSIS	ALYSIS OF 1 6	•	750.00	879.00 604.00	250.09 400.00	60.00 901.60	350.00	350.00	359.00 700.00	1200.00 1500.00								
U. 1.7%     SAMPLE COMPUTER RUM FOR STS IN DOLLARS \$\$\$     SAMPLE COMPUTER RUM FOR BEA       STS IN DOLLARS \$\$\$     MATRIX OF VALUES FOR THE SEM ATRIX OF VALUE       MATRIX AF VALUES     0.310     0.310     0.310       MATRIX AF VALUES     0.350     0.310     0.300       MATRIX AF VALUES     0.350     0.000     0.000       MATRIX AF VALUE     0.350     00000     00000       MATRIX AF VALUE     0.300     00000     00000       MATRIX AF VALUE     0.000     00000     00000       MATRIX AF VALUE     0.0000     00000     00000		FLEX TECHN	A 1111118	5 0.90		675.00	183°00	360.00	1 540.00 B10.00	315,00	315.00	630.60	1350.00							•	
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