APPENDIX C. MAINTENANCE PROGRAMS AND MANHOURS (GROUPED BY FREQUENCY)

THIS PAGE INTENTIONALLY LEFT BLANK

LIST OF FIGURES

THIS PAGE INTENTIONALLY LEFT BLANK

A. SCOPE

This appendix to the MPD provides useful information related to manhours required for 767 scheduled maintenance. Part B provides details of the Computerized Maintenance Program Packaging Indexes/Tables. Part C includes a Manhour Summary by Phase Group by Skill Table which lists cumulative manhours per A-Check (phase). Part D includes a graph of the data presented in Part C. Each of the unique intervals specified throughout the MPD are grouped together and summarized in Part E of this appendix. Part E is a summary of the various intervals used and the total task manhours associated with each unique interval.

B. COMPUTERIZED MAINTENANCE PROGRAM PACKAGING

Upon request, Boeing will prepare a set of computerized maintenance program packaging indexes/tables based on the operator's anticipated aircraft utilization and check intervals.

The following explanation of Maintenance Program Packaging Indexes is provided to describe the five different indexes/tables included in the package. The five indexes/tables are: Manhour Summary by Phase Group According to Skill, Maintenance Task Operating Plan, Index 7.1 Phase Group Tasks, Index 7.2 Phase Group Access Panel, and Index 7.3 Sorted By Phase Code. A sample of each index/table is included at the end of this section.

Task Intervals are identified in various terms (hours, cycles, calendar time, or letter check). Given an operator's hour to cycle ratio, daily utilization, and planned check intervals, all intervals can be converted, by computer, into a common unit or "Phase Code". This Phase Code can be used to schedule (group) the tasks into various work packages.

Every item in the MPD is covered by a task card. An "interval conversion" computer program is run to convert each task card interval into a phase code (based upon airplane utilization) and to enter this into the phase code data field on each card. The computer program then produces indexes and tables, grouping tasks into the nearest Systems A-Check package without exceeding the task interval.

Phase Codes are based upon the following parameters, any of which may be varied to determine its impact on the grouping of tasks into the A-check packages:

1. Flight hours per flight cycle
2. Flight hours per day
3. Systems A-Check (in Flight Hours or Days)
4. Structures A-Check (in Flight Cycles)
5. Systems C-Check (in Flight Hours or Days)
6. Structures C-Check (in Flight Cycles)
7. Structures C-Check (in months)

The "standard" Phase Code shown on the Task Card is based on the following parameters:

2.5	Flight hours per Flight Cycle
11.0	Flight Hours per day
500	Systems A-Check in Flight Hours
300	Structures A-Check in Flight Cycles
6,000	Systems C-Check in Flight Hours
3,000	Structures C-Check in Flight Cycles
18.00	Structures C-Check in months

Based on the above parameters, the Structures C-Check coincides with the Systems C-Check.

An understanding of the Boeing-assigned Phase Codes and Phase Groups is essential in order to interpret and use the data in the Maintenance Program Packaging Indexes and Tables provided. It is important to note that the Phase Code is a number that identifies the Initial and Repeat Intervals of a task; whereas a Phase Group is a grouping of tasks scheduled to be accomplished at the same time (check). Each Maintenance Task has only one assigned Phase Code (per utilization) but can be included in many different Phase Groups depending upon when the task becomes due; i.e., the Initial and Repeat Intervals.

DEFINITIONS:

- **Cycle** - The period of time during which all checks are accomplished, after which the maintenance program essentially repeats itself.

  Example: The 767 program has four C-Checks per cycle. Cycle 1 would be defined as the time between the first A-Check and the fourth C-Check. Cycle 2 would be the time between the fourth and the eighth C-Checks.

- **Phase Code** - A five-digit code, which is a translation of the interval, indicating the nearest initial and repeat A-Check without exceeding the interval.

- **Phase Group** - A group of tasks which become due based on the assigned phase codes.

  Example: Phase Group 4 includes all tasks with the following phase codes: 10101, 10103, 10202, and 10404.

  Each five-digit Phase Code consists of the following:

  - **First Digit: The Initial Cycle**
    This digit is "1" in most cases, which indicates that the initial A-Check is somewhere between the first A-Check and the last C-Check in the first cycle. This digit will be "2" if the initial A-Check is scheduled between the last C-Check in the first cycle and the last C-Check in the second cycle.

  - **Second and Third Digit: The Initial Phase or A-Check within the cycle**
    Each phase represents an A-Check. For example, 01 = 1A-Check, 05 = 5A-Check, 10 = 10A-Check. This is the A-Check as defined by the operator.

- **Fourth and Fifth Digits: The Repeat Phase or A-Check**

  The last two digits of the Phase Code indicate the Repeat Interval after the Initial Phase i.e., the number of phases between task accomplishment.

  For example: If this Repeat Phase has a value of 10, then the Task would be scheduled every tenth A-Check.

  Examples: 10101 = Accomplish task every A-Check

  10202 = Accomplish task every 2A-Check

  10404 = Accomplish task every fourth A-Check

  10510 = Accomplish task initially at the fifth A-Check and every tenth A-Check thereafter

  21040 = Accomplish task initially at the tenth A-Check in the second cycle and every fortieth A-Check thereafter

  11212 = Accomplish task every C-Check (assuming 1/12 C-Check = A-Check)

Special Phase Codes are used for items that are accomplished at unscheduled, undetermined, or variable times, and for life-limited parts that have no Repeat Interval.

Examples:		
	99XXX	This item is accomplished at an unscheduled variable time, such as at an engine change, a shop visit or at the life limit of a vendor supplied component.
	99TBD	The Threshold and Repeat Interval has not yet been reached, such as for the Supplemental Structural Inspection Program.
	814XX 916XX	This is used for life-limited parts that have a known Threshold Interval but the Repeat Interval does not apply.

EXPLANATION OF INDEXES AND TABLES

The following provides an explanation of the various indexes which are produced by the packaging program, followed by a sample page from each.

1. MANHOURS SUMMARY BY PHASE GROUP AND SKILL

   This table lists manhour requirements for all scheduled maintenance tasks which become due at a given A-Check (phase group). Each skill is listed separately; in addition, the total access requirements are listed and a grand total of manhours required for each check (phase) is given.

   USAGE: To identify the estimated manhour requirements for each skill within each phase group.

   NOTE: Figure 1 displays a sample page from the Manhours Summary by Skill for each Phase Group.

2. MAINTENANCE TASK OPERATING PLAN (MTOP)

   This chart illustrates the scheduling of each task based on the assigned Phase Code. The Phase Groups are listed at the top and bottom of the chart. For each of the tasks listed to the left of the chart, an "X" is placed below the applicable phase groups for that task. The placement and number of X's on the chart is determined by the Phase Code. Tasks with intervals of less than 1A are assigned a phase code of Transit (001TR), Daily (002DY) or Special Check (003SC) as applicable. These phase codes are followed by a "-" in the task listing and are not included on the chart.

   USAGE: Provides a visual illustration of which tasks fall due at a given check (phase group). It can be used to determine which task cards should be pulled for a given check. For example: To build a package of cards which should be accomplished at the 8th A-Check (phase group 08), all cards which have an "X" below column 8 should be pulled.

MAINTENANCE TASK OPERATING PLAN (SCHEDULING MATRIX)

Task Card Number	Interval	Phase	123	456	789	111 012	111 345	111 678	122 901	222 234	222 567	223 890	333 123	333 456	333_789	444 012	444 345	444 678
C-CHECKS						1C				2C				3C				4C
PHASE GROUPS			123	456	789	111 012	111 345	111 678	122 901	222 234	222 567	223 890	333 123	333 456	333_789	444 012	444 345	444 678
25-012-01	2C	12424								X								X
25-015-01	2A	10202	X	X X	X	X X	X	X X	X	X X	X	X X	X	X X	X	X X	X	X X
25-016-01	4C	14848																X
25-017-01	2C	12424								X								X
25-018-01	1C	11212				X				X				X				X
25-019-01	4C	14848																X
25-020-01	00018 MOS NOTE	11212				X				X				X				X
25-021-01	1A	10101	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
25-022-01	4C	14848																X
25-023-01	4C	14848																X
25-023-02	4C	14848																X
25-023-03	4C	14848																X
			123	456	789	111 012	111 345	111 678	122 901	222 234	222 567	223 890	333 123	333 456	333_789	444 012	444 345	444 678

FIGURE 1. MAINTENANCE TASK OPERATING (MTOP) EXAMPLE

3. INDEX 7.1 PHASE GROUP TASKS

   This index lists all Tasks within a given Phase Group. For example, at the fourth A-Check (Phase Group 4), Tasks with the following Phase Codes are grouped together: 10101, 10202, and 10404. Within each Phase Group, Tasks are sorted by Access Panel Number. Tasks with multiple access panels are repeated in this index, once for each access panel. Within each Phase Group, only the first occurrence of the panel number is listed (for ease in reading). Subsequent tasks using that same access panel have a blank in the Access Panel column.

   USAGE: Useful in identifying all tasks (within a given phase group) which require the same access.

P7R4		767 PHASE 4 GROUP		(SORTED BY ACCESS)
PHASE	ACCESS PANEL	WORK AREA	CARD NUMBER	TITLE
10202		R MAIN GEAR	12-024-C1-2	Right Main Gear
10202		R MAIN W/W	12-044-C1-2	Right Wheel Well Spherical Bearings
10101	1004	L MAIN GEAR	S32-011-01-1	Left Main Landing Gear Body Door
10202		L MAIN W/W	12-044-C1-1	Left Wheel Well Spherical Bearings
10101		L WING TE	27-062-01-1	TE Flap Mechanism Mounting Bolts
10404		LNDG GEAR	32-046-01	NLG Spin Brake Spring Arm
10101		NOSE GEAR	S32-001-01	Nose Landing Gear Assembly
10101		NOSE GEAR	S32-005-01	Nose Landing Gear Fwd Door Assembly
10101		NOSE GEAR	S32-005-02	Nose Landing Gear Aft Door Assembly
10101		NOSE W/W	S53-017-01	Nose Landing Gear Wheel Well
10101		R MAIN GEAR	S32-011-01-2	Right Main Landing Gear Body Door
10202		R MAIN W/W	12-044-C1-2	Right Wheel Well Spherical Bearings
10101		R WING TE	27-062-01-2	TE Flap Mechanism Mounting Bolts
10101		WHEEL WELLS	S53-045-01	Main Landing Gear Wheel Well Struct
10101	113AL	FUSELAGE	35-001-C1	Crew Oxygen System Pressure/Cylinder
10404	119AL	MAIN EE CTR	24-006-01	Main Battery
10202		MAIN EE CTR	27-033-01	Flap/Slat Electronics Unit (FSEU)
10202	1251	A/C MIX BAY	21-003-01	Recirculation Air Prefilters
10202	195CL	L MAIN W/W	12-044-C1-1	Left Wheel Well Spherical Bearings
10202		L MAIN W/W	53-003-01-1	Aft W/W Bulkhead Spherical Bearing
10404	195SL	R MAIN W/W	29-009-01	SYS C HYD ACMP/ADP Case Drain Filter
10101		W/B FAIRING	29-005-01	SYS C HYDRAULIC ADP Oil Level
10202	196CR	R MAIN W/W	12-044-C1-2	Right Wheel Well Spherical Bearings
10202		R MAIN W/W	53-003-01-2	Aft W/W Bulkhead Spherical Bearing
10101	197PZX	W/B FAIRING	25-021-01	Off-Wing Slide Inflation Bottle
10101	198KZX	W/B FAIRING	25-021-01	Off-Wing Slide Inflation Bottle
10404	312AR	STAB COMPT	27-053-01	Stabilizer Trim Ball-Screw Actuator
10202	315AL	APU COMPT	49-023-C1	APU Oil Press & Gen Scavenge Filters
10101		APU COMPT	49-060-01	APU Surge Valve Filter Element

FIGURE 2. INDEX 7.1 PHASE GROUP TASKS EXAMPLE

D622T001

4. INDEX 7.2 PHASE GROUP ACCESS PANEL

   This index lists all panels within a given check (phase group) which are required to be opened/closed. This list of panels is developed in the following manner:

   a. Tasks are collected into Phase Groups based on the Phase Code assigned to the individual Task Card.

   b. Each Task Card requires certain access panels to be opened/closed. A list of all access panels required to be open/closed is developed and all duplicate access panel entries are eliminated.

   c. Some small panels may be contained within a larger panel. The computer program eliminates all small panels if both the large and small panel are required in the same group.

   d. Once a "clean" list of panels required for a given phase group has been determined, a separate table is accessed from which the following information is pulled: Open and Close Manhours, MM Ref, and Panel Title.

   USAGE: Useful in identifying those panels which must be open/closed during a given phase in order to accomplish all tasks scheduled at that phase. A manhour total for both opening and closing is also provided.

P7R4			767 PHASE	1 GROUP (SORTED BY ACCESS)
ACCESS PANEL	OPEN MAN HRS	CLOSE MAN HRS	MM REF	TITLE
1004	00.10	00.10	32-00-15	Landing Gear Wheel Well Doors
113AL	00.02	00.02		Forward Equipment Center Door
195SL	00.02	00.02		Air Turbine Driven Hydraulic Pump AC
197PZX	00.02	00.02		Escape Slide Pressure Cylinder Gage
198KZX	00.02	00.02		Escape Slide Pressure Cylinder Gage
315AL	00.02	00.02		Auxiliary Power Unit Access Doors
316AR	00.02	00.02		Auxiliary Power Unit Access Doors
413AL	00.03	00.03		Eng 1 L Side Fan Cowl
414AR	00.03	00.20	71-11-04	Eng 1 R Side Fan Cowl
415AL	00.15	00.20	78-31-00	Eng 1 L Side T/R Cowl
415FB	00.02	00.02		Eng 1 L Side Bifurcation Duct Access
416AR	00.15	00.20	78-31-00	Eng 1 R Side T/R Cowl
417AL	00.04	00.05	71-11-06	Eng 1 L Side Core Cowl
417CL	00.02	00.02		Eng 1 L Side Idg Service Door
418AR	00.05	00.05	71-11-06	Eng 1 R Side Core Cowl
423AL	00.03	00.03	71-11-04	Eng 2 L Side Fan Cowl
424AR	00.03	00.03	71-11-04	Eng 2 R Side Fan Cowl
425AL	00.15	00.20	78-31-00	Eng 2 L Side T/R Cowl
425FB	00.02	00.02		Eng 2 L Side Bifurcation Duct Access
426AR	00.15	00.20	78-31-00	Eng 2 R Side T/R Cowl
427AL	00.05	00.05	71-11-06	Eng 2 L Side Core Cowl
427CL	00.02	00.02		Eng 2 L Side IDG Service Door
428AR	00.05	00.05	71-11-06	Eng 2 R Side Core Cowl
5002	00.10	00.10	27-51-00	Extend TE Flaps
732	00.02	00.03	32-00-15	MLG Body Door
742	00.02	00.02	32-00-15	MLG Body Door

FIGURE 3. INDEX 7.2 PHASE GROUP ACCESS PANEL EXAMPLE

5. INDEX 7.3 SORTED BY PHASE CODE

   This index is sorted by Phase Code and provides a manhour total for all tasks with that same code. The first items shown in this index are the Transit (001TR), Daily (002DY), and Special Check (003SC) Tasks.

   USAGE: To determine which tasks have a common Phase Code, regardless of the actual interval assigned. This index can be used to identify the assigned phase code for a given interval; in addition, this index lists all tasks in order of occurrence.

SYSTEMS, STRUCTURAL, AND ZONAL MAINTENANCE TASKS SORTED BY PHASE									
67 PH1 PHASE	BOEING 767 TASK CARD INDEX 7.3								
	INTERVAL	SMPL CARD NO.	MPD ITEM NO.	MHRS	ZONES	ACCESS PANELS		TASK	TITLE
10404	00900 CYC NOTE	32-046-01	32-45-05-A	00.3	115 116	1004		Check/Insp	NLG Spin Brake Spring Arm
10404	02000 HRS	21-006-01	21-26-03-4A	00.2	223 243 253			Replace	Galley Ventilation Filters
10404	02000 HRS	24-006-01	24-31-01-4A	01.3	120	119AL		Functional	Main Battery
10404	02000 HRS	24-008-01	24-31-04-4A	01.3	154	822		Functional	Apu Battery
10404	4A	12-006-C1-1	12-21-07-3C 12-21-07-3D	00.25	561	561BB		Lubricate	Left Inboard Aileron PCA'S & Hinges
10404	4A	12-006-C1-2	12-21-07-3C 12-21-07-3D	00.25	661	661BB		Lubricate	Right Inboard Aileron PCA'S & Hinges
10404	4A	27-053-01	12-13-06-3A	00.2	311 312	312AR		Service	Stabilizer Trim Ball-Screw Actuator
10404	4A	29-004-01-1	29-11-00-6B	00.02	437	437BR		Check/Insp	SYS L HYD EDP/ACMP Case Drain Filter
10404	4A	29-004-01-2	29-11-00-6B	00.02	447	447BR		Check/Insp	SYS R HYD EDP/ACMP Case Drain Filter
10404	4A	29-009-01	29-11-00-6D	00.04	144 195	195SL	742	Check/Insp	SYS C HYD ACMP/ADP Case Drain Filter
10404	4A	34-013-51	34-12-00-6A	00.1	212			Operational	Air Data Computer
10404	4A	38-014-01	38-32-17-2A	00.7	165	811		Clean/Insp	Waste Tank Rinse Nozzles
10404	4A	52-026-01	52-34-00-5A	00.6	211 821 822	821	822	Operational	Fwd Cargo Door Operating Mechanism
10404	4A	52-027-02	52-35-00-5A	00.3	211 822	822		Operational	Aft Cargo Door Operating Mechanism
10404	4A	52-028-01	52-34-12-C	00.2	122 154	821	822	Check/Insp	Cargo Door Actuation/Latch Components
10404	4A	73-113-01-1	P73-21-02-4A	00.2	411	416AR		Clean	Fuel Control Main Filter
10404	4A	73-113-01-2	P73-21-02-4A	00.2	421	426AR		Clean	Fuel Control Main Filter
LEVEL -2 SUMMATIONS		FIELD MANHOURS OF CARD TYPE B CONTAINS 17 ENTRIES WHICH SUM TO 6.18000							

FIGURE 4. INDEX 7.3 SORTED BY PHASE CODE EXAMPLE

C. MANHOUR SUMMARY BY SKILL FOR EACH PHASE GROUP TABLE

Figure 5 lists manhours required for all scheduled Maintenance Tasks which become due at a given phase. Each Phase Group includes all tasks which become due at that phase. Each skill is listed separately for each phase group; in addition, the total access requirements for those tasks grouped at that phase are listed.

USAGE: Figure 5 is used to identify the exact manhour requirements for each skill within each phase group, as well as the manhours required for access at each check.

This table of manhours per phase is based on the following "standard" parameters:

2.5	Flight hours per flight cycle
11.0	Flight hours per day
500	Systems A-Check in flight hours
300	Structures A-Check in flight cycles
6,000	Systems C-Check in flight hours
3,000	Structures C-Check in flight cycles
*18.00	Structures C-Check in months

*Based on the above utilization parameters, the Structures C-Check coincides with the Systems C-Check.

PHASE	AIRPL	AVION/ELEC	ENGINE	ACCESS	TOTAL
1	4.79	1.08	16.10	3.45	25.42
2	22.34	1.28	18.02	5.73	47.37
3	6.19	4.18	12.70	2.69	25.76
4	26.92	3.98	18.42	6.37	55.69
5	6.79	1.08	12.30	2.55	22.72
6	31.34	4.38	24.62	16.83	77.17
7	8.39	1.08	12.30	2.55	24.32
8	34.82	5.01	19.02	14.68	73.53
9	6.19	4.18	12.70	2.69	25.76
10	33.34	1.28	18.02	8.09	60.73
11	8.79	1.08	12.30	2.55	24.72
12	264.13	18.59	40.27	83.52	406.51
13	4.79	1.08	16.10	3.45	25.42
14	27.44	1.28	18.02	5.73	52.47
15	8.69	4.18	12.70	2.69	28.26
16	36.72	8.01	19.02	15.58	79.33
17	5.29	1.08	12.30	2.55	21.22
18	52.04	4.38	24.62	68.23	149.27
19	5.29	1.08	12.30	2.55	21.22
20	37.92	3.98	20.42	12.37	74.69
21	10.29	4.18	12.70	2.69	29.86
22	26.84	1.28	18.02	5.73	51.87
23	5.29	1.08	12.30	2.55	21.22
24	378.56	36.82	44.87	119.82	580.07
25	7.29	1.08	16.10	3.45	27.92
26	22.84	1.28	18.02	5.73	47.87
27	6.69	4.18	12.70	2.69	26.26
28	29.52	3.98	18.42	6.37	58.29

PHASE	AIRPL	AVION/ELEC	ENGINE	ACCESS	TOTAL
29	5.29	1.08	12.30	2.55	21.22
30	42.84	4.38	24.62	18.99	90.83
31	5.29	1.08	12.30	2.55	21.22
32	36.72	8.01	19.02	15.58	79.33
33	10.69	4.18	12.70	2.69	30.26
34	24.34	1.28	18.02	5.73	49.37
35	12.89	1.08	12.30	2.75	29.02
36	308.43	20.59	40.67	152.50	522.19
37	5.29	1.08	16.10	3.45	25.92
38	22.84	1.28	18.02	5.73	47.87
39	6.69	4.18	12.70	2.69	26.26
40	57.42	5.01	21.02	59.64	143.09
41	5.29	1.08	12.30	2.55	21.22
42	35.44	4.38	24.62	16.83	81.27
43	5.29	1.08	12.30	2.55	21.22
44	31.42	3.98	18.42	6.37	60.19
45	8.69	4.18	12.70	2.69	28.26
46	22.84	1.28	18.02	5.73	47.87
47	5.29	1.08	12.30	2.55	21.22
48	642.44	47.32	46.27	394.27	1130.30

FIGURE 5. MANHOUR SUMMARY BY SKILL FOR EACH PHASE GROUP

D. MANHOURS PER PHASE BY SKILL

Figures 6 and 7 (bar chart) illustrate the number of manhours required to accomplish the scheduled maintenance requirements which become due at that phase.

The manhours are broken down by skill using various line patterns. Manhours required to open/close access panels called out by the tasks in that phase are also separately identified in the graph. Two different scales are used (one for each graph); the first graph's scale is small (0-100) to allow a close look at the breakout by skill levels and the second graph's scale is large (0-1000) to include the largest manhour total (except for the 4C-Check).

Manhours are plotted vertically on the Y-Axis and phase (500 flight hours) is plotted horizontally on the X-Axis. Every phase represents an A-Check (500 flight hours) and every 12th phase represents a C-Check (6,000 flight hours). The actual manhour values used to plot the graph are listed in the Manhour Summary By Skill for each Phase Group Table.

USAGE: Figures 6 and 7 provide a visual comparison of manhours within each skill within a given phase group.

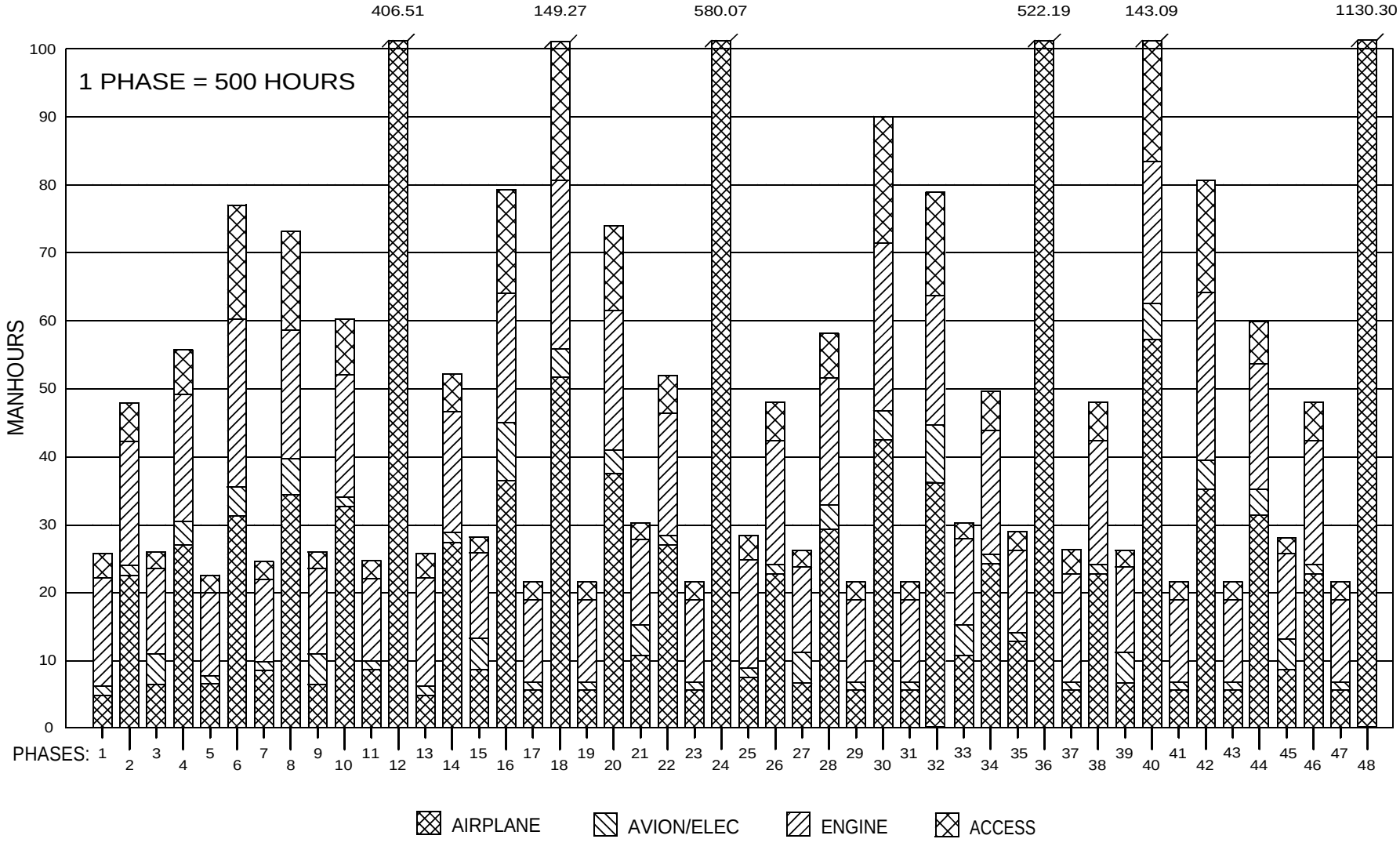

FIGURE 6. 767 CHECKS (1A THROUGH 4C) SCHEDULED CHECK MANHOURS

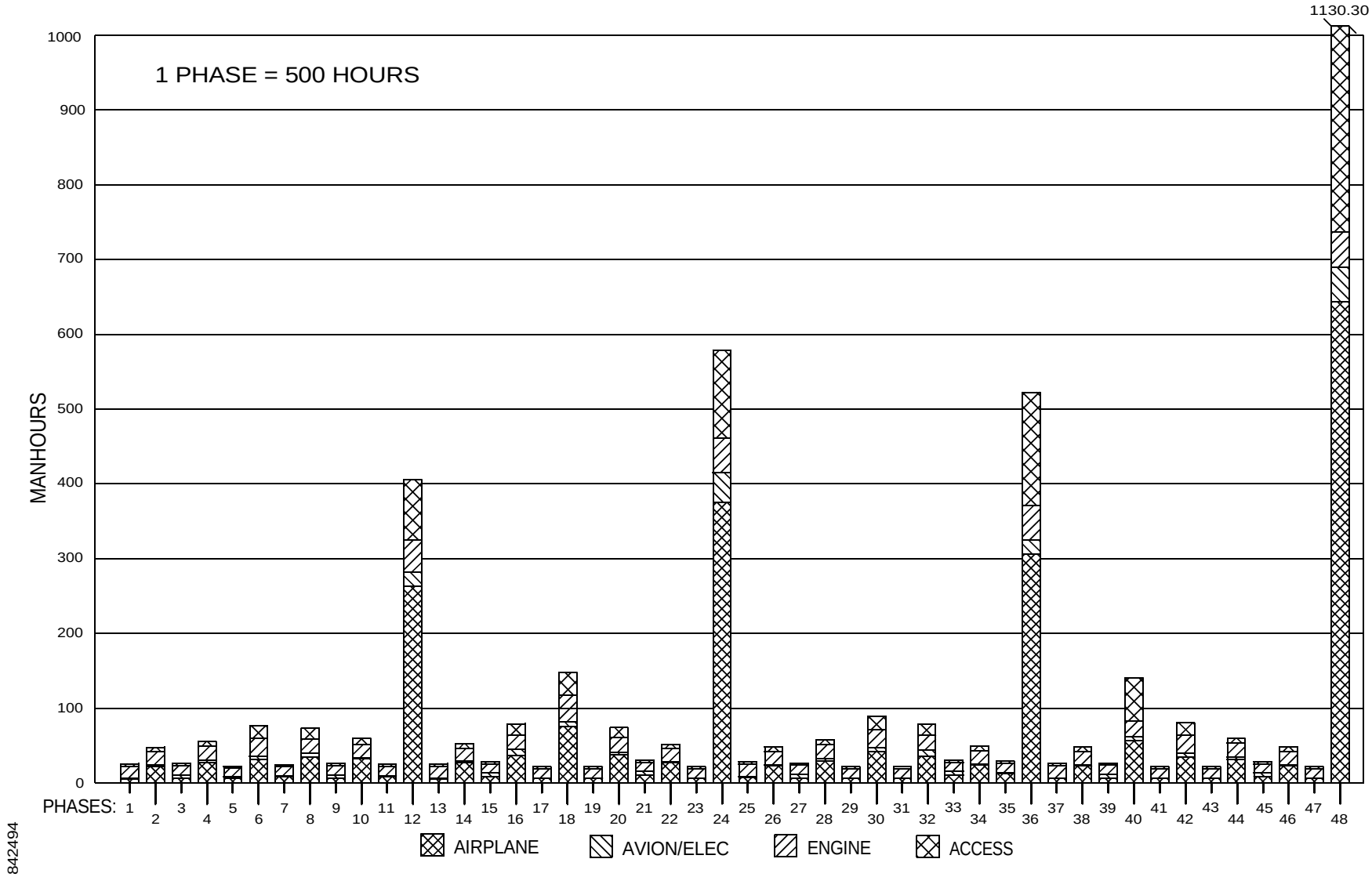

FIGURE 7. 767 CHECKS (1A THROUGH 4C) SCHEDULED CHECK MANHOURS

E. 767 TASK MANHOUR SUMMARY

This portion of Appendix C is a summary of the manhours for each frequency listed in Sections 5, 6, 7, 8, and 10 of the MPD. This list summarizes all of the intervals used in the 767 Maintenance Program and is generic for all customer configurations. Data in this summary should not be used to determine specific customer manhour requirements. Indexes 1 - 5 provides a task listing by interval. Manhour summations for tasks listed in Index 3 will more accurately reflect specific customer configurations.

This list of various intervals is arranged in order of occurrence, i.e., the most frequent intervals are listed first. Tasks specific to a particular engine configuration are totaled separately. The manhours shown represent the total task manhours; manhours to open/close access panels are not included in these task manhour totals (see Part C, Page C.0-19 for open/close manhours grouped by phase).

INTERVAL		ENGINE			MANHOURS
TR		ALL	11	Entries which sum to	.37
DAILY		ALL	13	Entries which sum to	2.41
DAILY	NOTE	ALL	2	Entries which sum to	.20
DAILY	(#)	ALL	2	Entries which sum to	.15
00100 HRS	NOTE	ALL	1	Entries which sum to	.20
00100 HRS	(#)	ALL	1	Entries which sum to	.10
00250 HRS	(#)	ALL	2	Entries which sum to	.50
00400 HRS	NOTE	ALL	7	Entries which sum to	.65
00400 HRS	(#)	ALL	2	Entries which sum to	.40
90000 CYC		ALL	4	Entries which sum to	.00
NOTE		ALL	2	Entries which sum to	.40
00500 HRS		(1)	4	Entries which sum to	.90
00500 HRS	NOTE	ALL	1	Entries which sum to	.50
1A		ALL	28	Entries which sum to	2.70

INTERVAL		ENGINE			MANHOURS
1A	(1)	ALL	1	Entries which sum to	.50
1A	NOTE	ALL	1	Entries which sum to	.10
S 1A		ALL	35	Entries which sum to	3.49
00500 CYC		ALL	1	Entries which sum to	.30
01000 HRS	(1)	ALL	1	Entries which sum to	.20
01200 HRS	NOTE	ALL	2	Entries which sum to	.40
2A		ALL	67	Entries which sum to	12.85
2A	(1)	ALL	1	Entries which sum to	.10
2A	(#)	ALL	1	Entries which sum to	.10
01600 HRS		ALL	3	Entries which sum to	1.20
3A		ALL	6	Entries which sum to	3.70
00900 CYC	NOTE	ALL	1	Entries which sum to	.30
02000 HRS		ALL	3	Entries which sum to	2.80
4A		ALL	18	Entries which sum to	3.42
01000 CYC	NOTE	ALL	1	Entries which sum to	2.00
03000 HRS		(1)	7	Entries which sum to	2.60
6A		ALL	41	Entries which sum to	7.50
S 5A		ALL	4	Entries which sum to	3.60
00012 MOS		ALL	1	Entries which sum to	1.00
00012 MOS	NOTE	ALL	1	Entries which sum to	.50
04000 HRS		ALL	10	Entries which sum to	5.10
04000 HRS	(#)	ALL	5	Entries which sum to	2.63
NOTE		ALL	2	Entries which sum to	3.00
00015 MOS	NOTE	ALL	6	Entries which sum to	6.50
00015 MOS	(1)	ALL	1	Entries which sum to	1.00

INTERVAL		ENGINE			MANHOURS
NOTE		ALL	1	Entries which sum to	2.00
NOTE	NOTE	ALL	1	Entries which sum to	2.00
00018 MOS		ALL	3	Entries which sum to	1.60
00018 MOS	NOTE	ALL	1	Entries which sum to	2.80
1C		ALL	257	Entries which sum to	140.76
1C	NOTE	ALL	1	Entries which sum to	.30
1C	(#)	ALL	3	Entries which sum to	3.50
S 1C		ALL	122	Entries which sum to	90.35
1C	2C	ALL	6	Entries which sum to	7.00
03000 CYC	00300 CYC	ALL	1	Entries which sum to	.50
00002 YRS		ALL	3	Entries which sum to	2.40
00002 YRS	NOTE	ALL	2	Entries which sum to	1.00
09000 HRS		ALL	22	Entries which sum to	21.80
00030 MOS		ALL	1	Entries which sum to	.50
00030 MOS	NOTE	ALL	1	Entries which sum to	.50
10000 HRS		(1)	2	Entries which sum to	2.00
NOTE		ALL	3	Entries which sum to	3.70
00003 YRS		ALL	3	Entries which sum to	6.00
00003 YRS	NOTE	ALL	1	Entries which sum to	1.40
2C		ALL	73	Entries which sum to	59.43
2C	(#)	ALL	2	Entries which sum to	4.00
S 2C		ALL	58	Entries which sum to	60.90
2C	4C	ALL	2	Entries which sum to	.20
07000 CYC	03000 CYC	ALL	1	Entries which sum to	2.00
18000 HRS	09000 HRS	ALL	11	Entries which sum to	7.50

INTERVAL		ENGINE			MANHOURS
3C		ALL	14	Entries which sum to	11.50
3C	(#)	ALL	1	Entries which sum to	.60
3C (1)		ALL	1	Entries which sum to	1.00
NOTE		ALL	1	Entries which sum to	1.00
00005 YRS		ALL	1	Entries which sum to	.10
00060 MOS	NOTE	ALL	11	Entries which sum to	11.00
00006 YRS		ALL	3	Entries which sum to	5.50
00006 YRS	NOTE	ALL	2	Entries which sum to	1.00
4C		ALL	118	Entries which sum to	85.93
S 4C		ALL	88	Entries which sum to	106.25
S 4C		ALL	49	Entries which sum to	78.50
S 4C		ALL	8	Entries which sum to	11.50
S 4C	NOTE	ALL	1	Entries which sum to	1.00
NOTE		ALL	5	Entries which sum to	4.70
00010 YRS		ALL	8	Entries which sum to	9.70
18000 CYC	NOTE	ALL	4	Entries which sum to	151.00
00012 YRS		ALL	2	Entries which sum to	6.20
50000 CYC		ALL	2	Entries which sum to	86.00
70000 CYC		ALL	2	Entries which sum to	86.00
80000 CYC		ALL	1	Entries which sum to	21.00
NOTE		ALL	2	Entries which sum to	2.00
TBD	03000 CYC	ALL	10	Entries which sum to	8.00
TBD	06000 CYC	ALL	16	Entries which sum to	1.00
TBD	09000 CYC	ALL	2	Entries which sum to	.00
TBD	12000 CYC	ALL	26	Entries which sum to	12.00

INTERVAL		ENGINE			MANHOURS
TBD	12000 CYC	ALL	2	Entries which sum to	.00
TBD	12000 CYC	ALL	1	Entries which sum to	.00
TBD	12000 CYC	ALL	3	Entries which sum to	.00
TBD	12000 CYC	ALL	6	Entries which sum to	.00
TBD	12000 CYC	ALL	5	Entries which sum to	.00
TBD	18000 CYC	ALL	2	Entries which sum to	.00
TBD	24000 CYC	ALL	5	Entries which sum to	.00
TBD	24000 CYC	ALL	1	Entries which sum to	.00
TBD	30000 CYC	ALL	1	Entries which sum to	.00
APU CNG		ALL	3	Entries which sum to	2.10
IDG CNG		ALL	1	Entries which sum to	.20
IDG CNG	NOTE	ALL	1	Entries which sum to	.20
LIFE LMT	NOTE	ALL	1	Entries which sum to	.00
NOTE		ALL	4	Entries which sum to	5.60
SHOP VST	NOTE	ALL	3	Entries which sum to	.00
WHEEL CNG		ALL	6	Entries which sum to	1.40
(1)		ALL	5	Entries which sum to	8.50
62000 CYC		ALL	2	Entries which sum to	.00
TR		7R4	8	Entries which sum to	.16
00400 HRS	(#)	7R4	1	Entries which sum to	.03
00200 CYC		7R4	2	Entries which sum to	2.60
00500 HRS		7R4	4	Entries which sum to	1.40
00600 HRS	(1)	7R4	4	Entries which sum to	6.00
1A	NOTE	7R4	10	Entries which sum to	1.20
1A	1C	7R4	6	Entries which sum to	3.80

INTERVAL		ENGINE			MANHOURS
00400 CYC		7R4	8	Entries which sum to	3.25
01000 HRS		7R4	4	Entries which sum to	.80
2A		7R4	2	Entries which sum to	.10
4A		7R4	2	Entries which sum to	.40
03000 HRS		7R4	6	Entries which sum to	2.20
04000 HRS	(#)	7R4	4	Entries which sum to	1.80
1C		7R4	48	Entries which sum to	17.92
09000 HRS		7R4	2	Entries which sum to	.40
10000 HRS		7R4	2	Entries which sum to	2.00
2C		7R4	9	Entries which sum to	5.40
3C		7R4	2	Entries which sum to	.40
LIFE LMT	(1)	7R4	5	Entries which sum to	.00
1A	1C	80	2	Entries which sum to	6.00
00400 CYC		80	4	Entries which sum to	2.40
1C		80	28	Entries which sum to	15.30
09000 HRS		80	2	Entries which sum to	.40
2C		80	2	Entries which sum to	1.00
TR		80A	8	Entries which sum to	.16
00400 HRS	(#)	80A	1	Entries which sum to	.02
1A		80A	2	Entries which sum to	.10
00400 CYC		80A	4	Entries which sum to	.60
00400 CYC	(1)	80A	4	Entries which sum to	5.80
01000 HRS		80A	6	Entries which sum to	1.80
2A		80A	4	Entries which sum to	.30
4A		80A	2	Entries which sum to	1.20

INTERVAL		ENGINE			MANHOURS
03000 HRS		80A	6	Entries which sum to	1.20
04000 HRS	(#)	80A	6	Entries which sum to	2.40
1C		80A	20	Entries which sum to	3.22
2C		80A	5	Entries which sum to	2.40
3C		80A	2	Entries which sum to	.40
ENG CNG		80A	2	Entries which sum to	.00
LIFE LMT	(1)	80A	4	Entries which sum to	.00
TR		80C	8	Entries which sum to	.16
00400 HRS	(#)	80C	1	Entries which sum to	.02
00500 HRS	(#)	80C	1	Entries which sum to	.10
1A		80C	3	Entries which sum to	.20
00400 CYC		80C	4	Entries which sum to	.60
00400 CYC	(1)	80C	4	Entries which sum to	5.80
01000 HRS		80C	6	Entries which sum to	1.80
4A		80C	2	Entries which sum to	1.20
04000 HRS	(#)	80C	2	Entries which sum to	1.20
1C		80C	36	Entries which sum to	9.82
2C		80C	5	Entries which sum to	2.40
NOTE		80C	2	Entries which sum to	1.00
ENG CNG		80C	2	Entries which sum to	.00
LIFE LMT	(1)	80C	5	Entries which sum to	.00
TR		4000	8	Entries which sum to	.16
DAILY		4000	2	Entries which sum to	.02
00400 HRS	(#)	4000	1	Entries which sum to	.02
00250 CYC		4000	10	Entries which sum to	5.70

INTERVAL		ENGINE			MANHOURS
00500 HRS	(#)	4000	1	Entries which sum to	.10
1A		4000	27	Entries which sum to	3.34
1A	1C	4000	2	Entries which sum to	3.00
2A		4000	36	Entries which sum to	4.78
4A		4000	8	Entries which sum to	1.02
01000 CYC	NOTE	4000	1	Entries which sum to	8.00
NOTE	NOTE	4000	1	Entries which sum to	8.00
1C		4000	70	Entries which sum to	23.40
2C		4000	7	Entries which sum to	4.40
3C		4000	2	Entries which sum to	.40
ENG CNG		4000	1	Entries which sum to	.00
LIFE LMT	(1)	4000	7	Entries which sum to	1.00
TR		524	8	Entries which sum to	.16
DAILY		524	1	Entries which sum to	.05
00100 HRS	NOTE	524	2	Entries which sum to	.10
00400 HRS	(#)	524	1	Entries which sum to	.20
00500 HRS		524	2	Entries which sum to	.20
00500 HRS	(#)	524	2	Entries which sum to	.20
1A		524	12	Entries which sum to	3.10
S 1A		524	2	Entries which sum to	.40
01000 HRS		524	6	Entries which sum to	8.00
2A		524	6	Entries which sum to	2.00
2A	(1)	524	2	Entries which sum to	.40
3A		524	4	Entries which sum to	1.20
4A		524	4	Entries which sum to	2.60

INTERVAL		ENGINE			MANHOURS
03000 HRS	(1)	524	2	Entries which sum to	.60
1C		524	66	Entries which sum to	16.10
S 1C		524	14	Entries which sum to	23.20
2C		524	9	Entries which sum to	3.60
S 2C		524	2	Entries which sum to	3.00
00010 YRS		524	2	Entries which sum to	4.00
30000 CYC		524	6	Entries which sum to	1.80
50000 CYC		524	2	Entries which sum to	1.00
NOTE		524	2	Entries which sum to	2.00
TBD	15000 CYC	524	2	Entries which sum to	.00
TBD	15000 CYC	524	2	Entries which sum to	.00
ENG CNG		524	7	Entries which sum to	13.80
ENG CNG	(1)	524	4	Entries which sum to	.80
LIFE LMT	(1)	524	9	Entries which sum to	.00

THIS PAGE INTENTIONALLY LEFT BLANK