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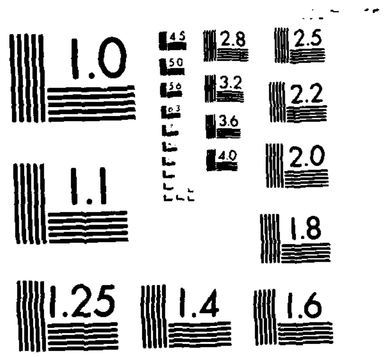

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USAAVSCOM
TECHNICAL MEMORANDUM TM 85-F-2

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PARTS REQUIREMENTS AND COST MODEL (PARCOM) SENSITIVITY ANALYSIS

DAVID J. ALLTON
Operations Research Analyst

February 1985

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U.S. ARMY AVIATION SYSTEMS COMMAND

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Sensitivity Analysis	Aircraft	Parts Requirements

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

A sensitivity analysis of the PARCOM Model was conducted to determine how sensitive PARCOM is to four variables: failure rates; inventory; maximum flying hours accomplished which is a measure of the force capability of the fleet; and cost constraint. Data for the AH-1S was used in the analysis. The output variable was sensitive to all the variables except maximum flying hours/aircraft/day. This variable resulted in sensitive output up to 6 hours per day and was insensitive in the range 6 hours to 24 hours. It was recommended that future studies using PARCOM contain a small sensitivity analysis to produce ranges of the outputs.

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PARTS REQUIREMENTS AND COST MODEL

(PARCOM)

SENSITIVITY ANALYSIS

Dr. David J. Allton
Operations Research Analyst

February 1985

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1.0 INTRODUCTION

1.1 Overview/PARCOM Turnkey Project

In 1984, the Plans and Analysis Directorate of the US Army Aviation Systems Command (AVSCOM) obtained the Concepts Analysis Agency's (CAA's) versions of the Overview model and the Parts Requirement and Cost Model (PARCOM).

The Overview and PARCOM models were revised and developed as a result of the Aircraft Spare Stockage Methodology (Aircraft Spares) Study conducted by CAA. The main purpose of this study was to provide the Army with an analytical tool to provide a quickly gross estimation of spare parts requirements and costs as they relate to flying hour and availability objectives during a wartime scenario.

The Overview/PARCOM Turnkey Project resulted in an "extended PARCOM" to replace Overview. Therefore, PARCOM was considered to be a appropriate model to provide that quick reaction, gross estimation of spare parts requirements and costs as they relate to flying hour and availability objectives during a wartime scenario.

1.2 PARCOM Description

CAA developed PARCOM which generates cost-effective mixes of add-on aircraft spare parts need to achieve a specified flying program under:

a. Various cost constraints

b. Part replacement policies

c. Aircraft availability objectives

PARCOM inputs consists of two data bases (parts data base and the scenario data base). The parts data base consists of several Reliability and Maintainability Logistics (RAMLOG) variables such as: unit cost; repair times; order and ship time; inventory; and failure rate per million flying hours. The scenario data base provides scenario type information such as: aircraft losses per day; maximum flying hours per aircraft per day; and add-on cost limit.

Typically, PARCOM outputs include total cost of various part replacement policies, daily aircraft availability and flying hours per aircraft per day, average aircraft availability and flying hours per aircraft per day, and fraction daily flying program achieved.

Typical questions addressed by PARCOM are, for example, using a budget limit of $15 million:

a. What spares should be added?

b. What is associated fraction of flying program achievable?

1.3 Purpose of the Sensitivity Analysis

PARCOM is a deterministic model which means that all the parameters of the model are known constants. This implies that the variables entering the model can and are measured with a high degree of accuracy. Since these parameters are estimated from historical data, some uncertainty in their values is inevitably present. For this reason, a sensitivity analysis needs to be conducted on PARCOM. The general purpose of the sensitivity analysis is to determine which input variables are relatively sensitive (i.e., those variables that cannot be changed much without changing the solution). This will allow the analyst to know which variables need to be closely scrutinized in the data collection phase of any study that will use PARCOM.

2.0 STUDY METHODOLOGY

2.1 Choice of Variables

In this analysis, four input variables were chosen to determine their sensitivity to the output variable "percent of flying hours accomplished" for "current stock = initial stock, only cost of added buy (= 15,000,000.) is available for reallocation." This output variable is generally the last table in the output from a PARCOM computer run. The four input variables used are as follows:

a. Failure Rate

b. Inventory

c. Maximum Flying Hours/Aircraft/Day

d. Cost Constraint

The first two variables are from the parts data base and the last two are from the scenario data base. The failure rates for the baseline case were obtained from the Sample Data Collection (SDC). Since the data results from a sample with an assumption that errors found in the data would be randomly distributed (positives offset negatives) it would be useful to see the effect of non random errors to the data. Further, in discussions with the AH-1 Project Manager's Office, questions were raised as to the accuracy of the SDC and whether or not the Average Monthly Demand (AMD) factor should be used in lieu of SDC. Therefore, failure rates were chosen as an input for sensitivity analysis.

The current inventory for each part was generally obtained from estimates produced by SESAME. In discussions with various individuals at AVSCOM, it was determined that the actual inventory at a specific unit was extremely difficult to determine. Further, the Prescribed Load List (PLL) and the Authorized Stockage List (ASL) is different for each unit. Therefore any inventory would be an estimation of what actually is the current inventory and very well may have a bias in the data.

In the Maximizing Daily Helicopter Flying Hours Study conducted by CAA, the issue of maximum flying hour/aircraft/day was addressed. This variable was chosen to determine the effect of changes in the maximum flying hours/aircraft/day on the percent of flying hours accomplished.

Since PARCOM was developed to consider the effect of changing budgeted dollar constraints to a flying hour program, one would expect that for the model to be useful the variable "cost constraint" should be sensitive.

2.2 Baseline Case Description

The baseline case represents that case in which the sensitivity analysis was based upon. The values for the inputs can be found in Appendices A and B. The resultant output value for the percent of flying hours accomplished was 53.2 percent. This represents the achievable program flying hours per available aircraft per day.

The baseline case represents those values for data collected for the AH-1S in the Overview/Turnkey Project with the exception that a cost constraint of $15 million was used in lieu of $10 million. Thus, the results of this sensitivity analysis provides a guide to the changes in the results for the AH-1S provided by this Command in the Overview/PARCOM Turnkey Project that may be experienced.

2.3 Procedure

The basic procedure used in this study was to change the value of the specified variable for all the parts by a specific amount. For example, the failure rates for all parts were increased by 10, 25, 50, and 75 percent and were also decreased by 10, 20 and 30 percent. This was done while holding all other variables at their baseline values. At no time was more than one variable changed from its baseline value. Further, for the variables failure rates and inventory, all parts were changed by the same increment.

Thus, the results for a change of the percent in the failure rates indicates the effect of changing all the failure rates by ten percent and then running PARCOM.

3.0 FINDINGS

3.1 Failure Rate

Figure 1 demonstrates that the output product called "Percent Flying Hours Accomplished" is highly sensitive to changes in the input variable "Failure Rate". If the "Failure Rate" is increased by 10%, then the "Percent Flying Hours Accomplished" is decreased from 53.2% to 44.9%, or a decrease of 15% from the baseline value. A decrease in failure rate of 10% results in a 25% increase in the output variable (from 53.2% to 67.2%).

This finding emphasizes the need for the analyst to scrutinize the data obtained that represents failure rate, very closely. This is because if the data does contain a bias one would expect a drastically different solution under unbias conditions (i.e., if the SDC underestimates the failure rates the resulting flying hour program accomplishment is likely to be drastically over optimistic).

3.2 Inventory

Figure 2 shows the graphical results for changes in the input variable inventory. The model is sensitive to this parameter in an almost direct proportional representation. Thus, a 10 percent change in the baseline data variable produces an almost 10 percent change (of the baseline) in percent flying hours accomplished.

This finding shows the need for the analyst to fully state what inventory was used in the data base and how any estimates were made (i.e., were war reserves used as part of the initial inventory).

3.3 Maximum Flying Hours/Aircraft/Day

The findings for the variable "Maximum Flying Hours are shown on Figure 3. The findings indicate that the model is sensitive to the variable

Figure 1

"FAILURE RATE"

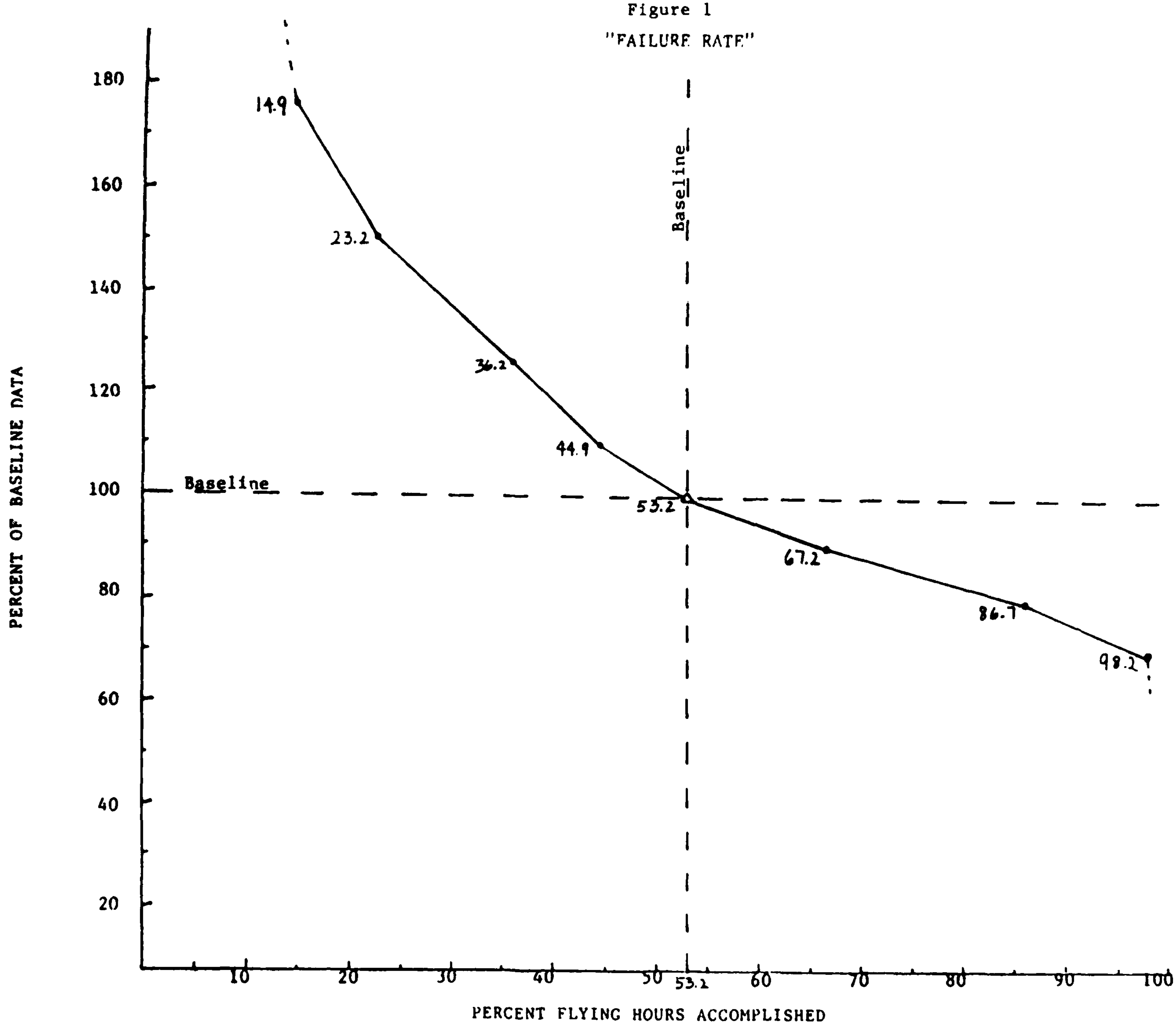


Figure 2
INVENTORY

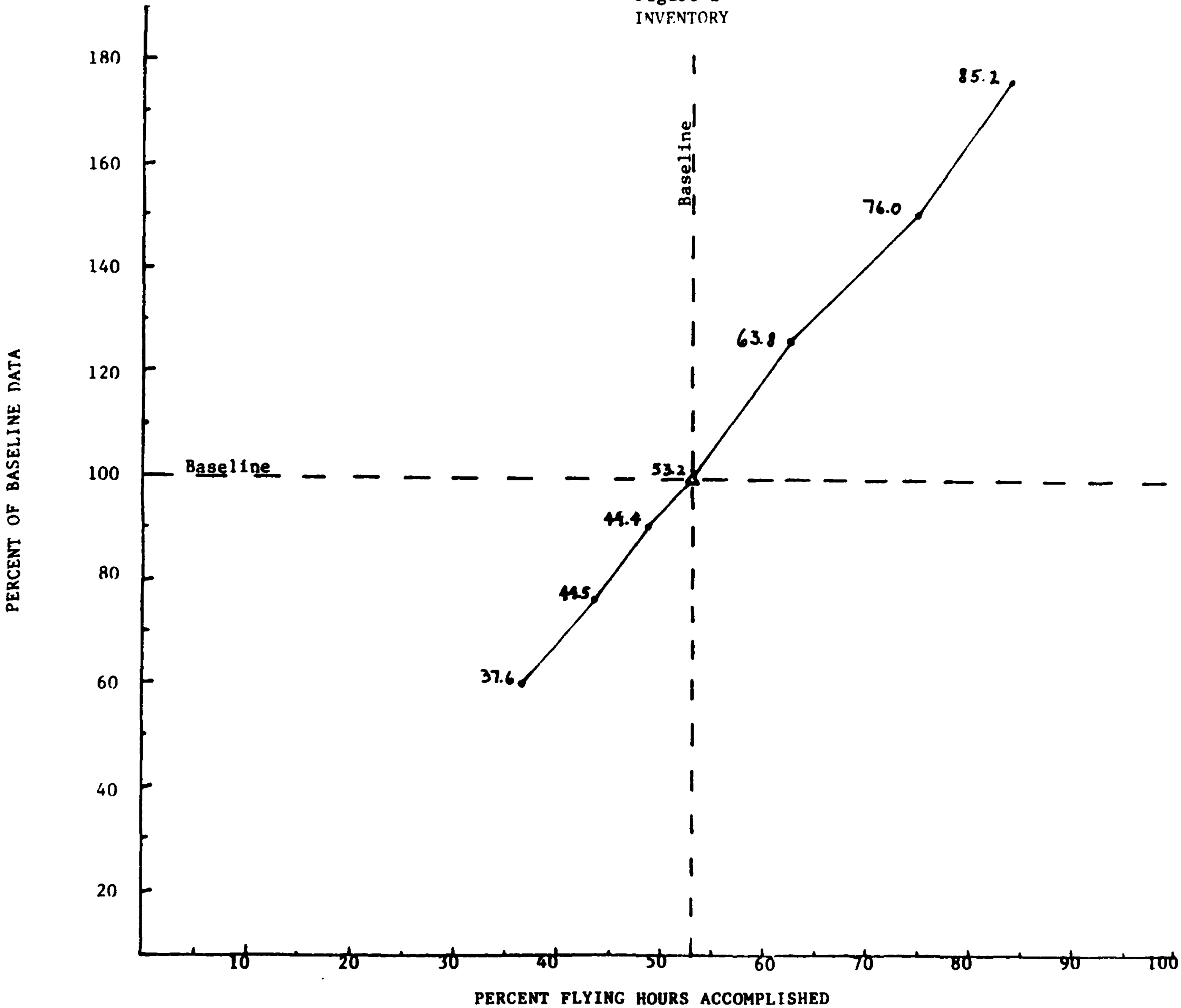
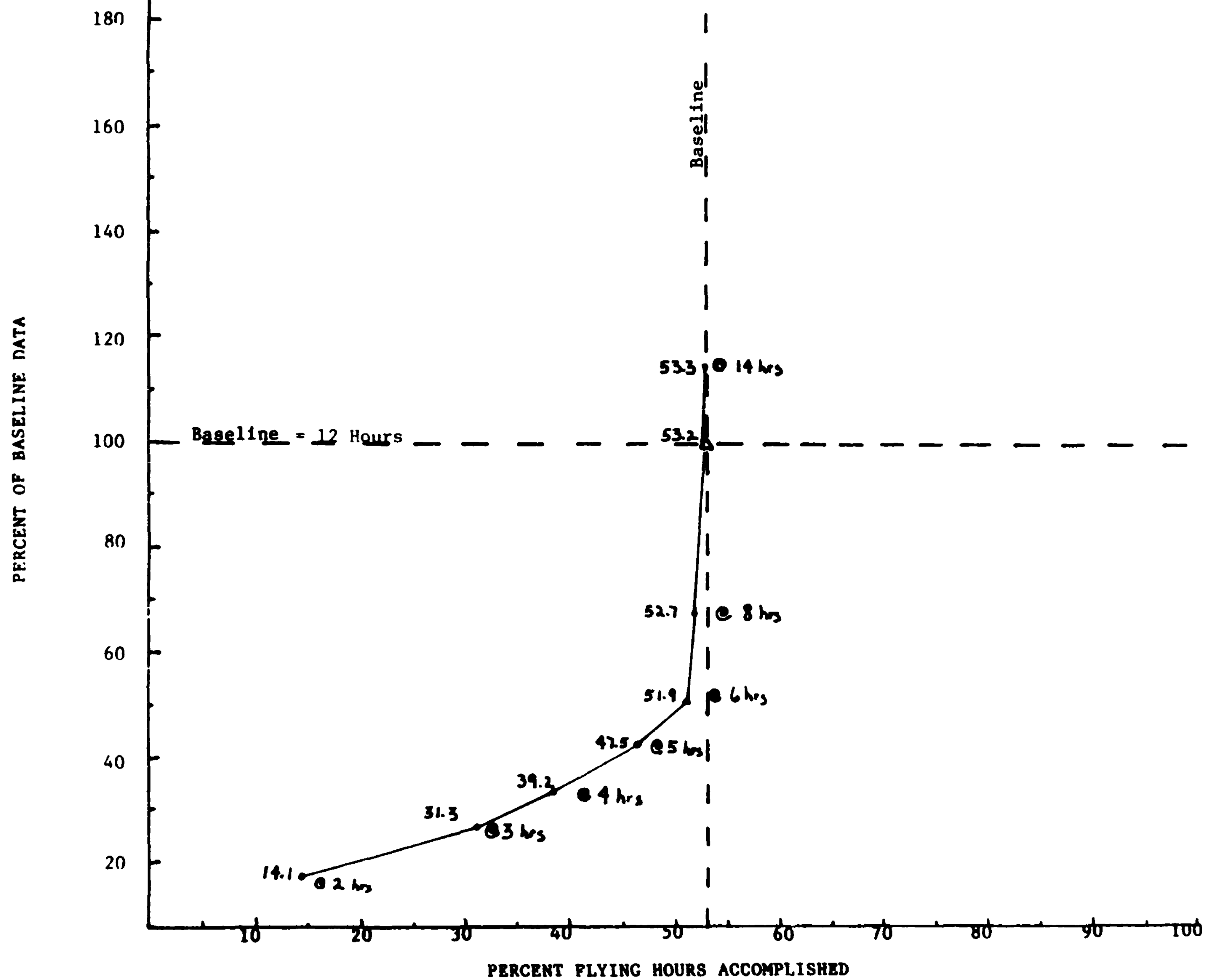


Figure 3

MAXIMUM FLYING HOURS/AIRCRAFT/DAY



in the low end of the spectrum. Once the maximum flying hours per day is set at 6 hours or more, there is virtually no change in the output. However, if one can only reasonably expect 2 to 6 hours of maximum fly hours per aircraft per day then the model is sensitive to the input and one can expect to find a much different solution, for example, for 4 hours as opposed to 5 hours.

3.4 Cost Constraint

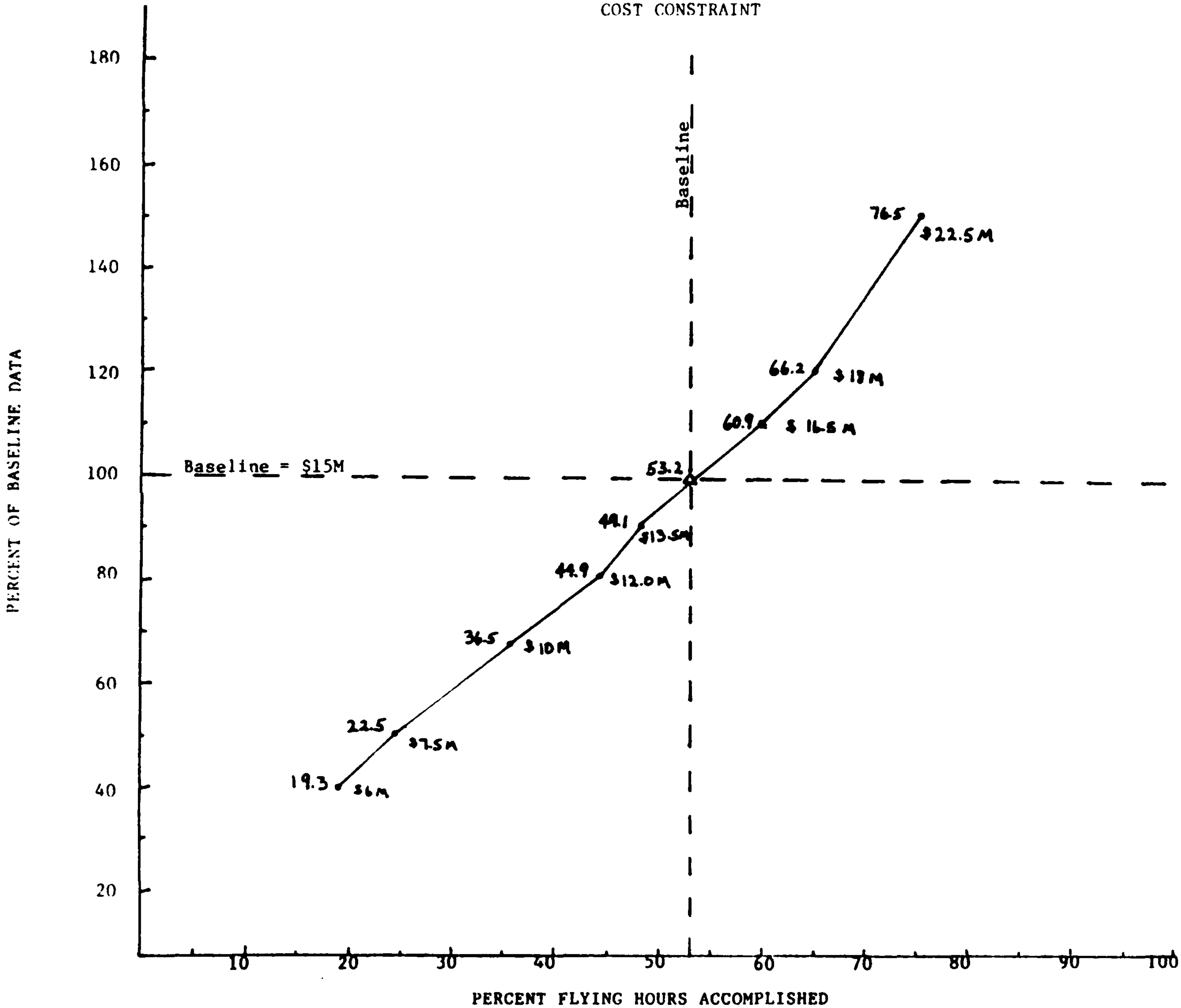
Since one of the purposes of PARCOM is to provide what are answers to various budget constraints, one would expect any model to show a sensitivity to this variable if cost is assumed to be a major driver of any flying hour program. Figure 4 demonstrates that changes in the add-on cost constraint will have an effect on the percent flying hours accomplished. Therefore, any decrease in the budget that would decrease the add-on cost constraint would significantly reduce the force capability of the fleet.

4.0 CONCLUSIONS AND RECOMMENDATIONS

This analysis demonstrates the need for concern during the data collection phase of any study using PARCOM and the assurance that the various scenarios do reflect realistic assumptions and possibilities. Further, the need for annual updates (at least) is emphasized so that the data used is the most timely and hopefully most accurate. However, if a time trend is evident (i.e., the failure rates are getting higher every year) then special concern must be expressed as to even the gross accuracy of the results.

In order to help offset the problems highlighted in this study, it is recommended that any future PARCOM study (run) should contain a minor sensitivity analysis that shows what the effect would be if the failure rates were changed by plus or minus 10 percent and if inventory were changed by the same. This would produce a couple of ranges of the output variable "Percent Flying Hours Accomplished". It should be noted that PARCOM produces only rough estimates and these ranges should not be construed as anything other than ranges around rough estimates.

Figure 4
COST CONSTRAINT



APPENDIX A

Baseline Case Parts Data Base

APPENDIX A

BASELINE CASE PARTS DATA BASE

ITEMS RANK ORDERED IN NORMAL INPUT ORDER

PART	MSN	DESCRIPTION	COST	OST	FAIL RT	NRTS	BCY	DCY	DRT	BCON	DCON	QPA	ESS	INVEN
1	1005003429607	FEEDER ASY GUN	7601.	0.0	0.000334	1.00	0.	160.	90.	0.00	0.00	1.	1	20
2	1005007679802	GUN BARRELS	324.	0.0	0.000003	0.00	0.	70.	0.	1.00	0.00	3.	1	20
3	1055010709113	M260 ROCKET LAUN	600.	0.0	0.000406	0.00	0.	70.	0.	1.00	0.00	2.	1	20
4	1090010548870	GUN DRIVE MOTOR	4933.	0.0	0.000125	1.00	0.	100.	30.	0.00	0.10	1.	1	20
5	1090010546877	TURRET CNTL ASSY	24417.	0.0	0.000136	1.00	0.	118.	48.	0.00	0.14	1.	1	20
6	1090010562903	GUN CNTL ASSEM	7501.	0.0	0.000900	1.00	0.	151.	81.	0.00	0.50	1.	1	20
7	1090010693363	LOGIC RELAY ASSY	5247.	0.0	0.000316	1.00	0.	190.	120.	0.00	0.02	1.	1	20
8	1090010710715	GUN LOGIC CNTL U	7885.	0.0	0.000045	1.00	0.	124.	54.	0.00	0.00	1.	1	20
9	1090010719277	ELECT PROCES UNI	29458.	0.0	0.000013	1.00	0.	370.	300.	0.00	0.05	1.	1	20
10	1090010737284	AIRSP&DIRECT SEN	14916.	0.0	0.000045	1.00	0.	265.	195.	0.00	0.15	1.	1	20
11	1090010743435	INERF CNTL UNIT	7524.	0.0	0.000181	1.00	0.	286.	216.	0.00	0.02	1.	1	20
12	1090010744313	LOW AIRSP INDICA	2491.	0.0	0.000013	1.00	0.	370.	300.	0.00	0.02	1.	1	20
13	1090010778938	OPERATIONS UNIT	6490.	0.0	0.000045	1.00	0.	145.	75.	0.00	0.05	1.	1	20
14	1090010778947	DISPLAY UNIT	11127.	0.0	0.000226	1.00	0.	172.	102.	0.00	0.00	1.	1	20
15	1090010852594	EMERGNCY STOW CN	4437.	0.0	0.000045	1.00	0.	184.	114.	0.00	0.00	1.	1	20
16	1090010869797	BUFFER AMP	864.	0.0	0.000030	1.00	0.	190.	120.	0.00	0.02	1.	1	20
17	1090011004469	GUN TURRET	150000.	0.0	0.000001	1.00	0.	435.	365.	0.00	0.02	1.	1	20
18	1270005734737	GUNNER LINKAGE A	2525.	0.0	0.000226	1.00	0.	370.	300.	0.00	0.00	1.	1	20
19	1270005735209	PILOT LINKAGE AS	2466.	0.0	0.000045	1.00	0.	370.	300.	0.00	0.00	1.	1	20
20	1270005780536	HELMENT SIGHT AS	1656.	0.0	0.000007	1.00	0.	370.	300.	0.00	0.51	2.	1	20
21	1270005780763	CABLE ASY	854.	0.0	0.000002	1.00	0.	370.	300.	0.00	0.00	1.	1	20
22	1270010325123	ELEC INTERF ASY	10400.	0.0	0.000136	1.00	0.	370.	300.	0.00	0.00	1.	1	20
23	1270010700490	SIGNAL PROCESSOR	41200.	0.0	0.000497	1.00	0.	229.	159.	0.00	0.02	1.	1	20
24	1270010700495	FIRE CNTL COMPUT	51704.	0.0	0.000045	1.00	0.	349.	279.	0.00	0.02	1.	1	20
25	1270010700529	BORESIGHT MEMORY	6133.	0.0	0.000090	1.00	0.	307.	237.	0.00	0.02	1.	1	20
26	1270010799378	HEADS-UP DISPLAY	45000.	0.0	0.000407	1.00	0.	238.	168.	0.00	0.02	1.	1	20
27	1430006211588	TSU	170483.	0.0	0.000632	1.00	0.	84.	14.	0.00	0.01	1.	1	20
28	1430006253738	MSL CMD AMPLIFIE	24235.	0.0	0.000136	1.00	0.	100.	30.	0.00	0.01	1.	1	20
29	1430006253744	POWER SUPPLY	45551.	0.0	0.000317	1.00	0.	100.	30.	0.00	0.01	1.	1	20
30	1440006253702	STAB CNTL AMP	80592.	0.0	0.000226	1.00	0.	100.	30.	0.00	0.01	1.	1	20
31	1440006268285	TOW LAUNCHER	12485.	0.0	0.000045	1.00	0.	100.	30.	0.00	0.01	2.	1	20
32	1440006292665	SIGHT HAND CNTL	2773.	0.0	0.000045	1.00	0.	100.	30.	0.00	0.01	1.	1	20
33	1440010321311	TOW CNTL PANEL	25298.	0.0	0.000090	1.00	0.	100.	30.	0.00	0.01	1.	1	20
34	1560000899824	TUBE,CYCLIC CONT	124.	0.0	0.000044	0.00	90.	70.	0.	0.00	1.00	1.	1	20
35	1560001761667-	TRACK ASSEMBLY,F	34.	0.0	0.000271	0.00	84.	70.	0.	0.00	1.00	2.	1	80
36	156000179622[illegible]	FAIRING ASSY,PYL	5799.	0.0	0.000045	0.62	42.	106.	36.	0.38	0.00	1.	1	60
37	1560003557911	PAD-SWAY BRACE,F	23.	0.0	0.000066	0.00	75.	70.	0.	0.00	1.00	1.	1	140
38	1560004200934	BOOT ASSEMBLY,F[illegible]	10.	0.0	0.000045	0.00	66.	70.	0.	0.00	1.00	1.	1	60
39	1560004454695	FUEL TANK AFT	3681.	0.0	0.000039	0.40	30.	75.	5.	0.40	0.48	1.	1	20
40	1560004464478	CONNECTING LINK,	146.	0.0	0.000030	0.00	90.	70.	0.	0.00	1.00	1.	1	20
41	1560004536143	BELL CRANK	170.	0.0	0.000045	0.00	90.	70.	0.	0.00	1.00	1.	1	20
42	1560004843975	DUCT ASSY,OIL CO	174.	0.0	0.000180	0.00	90.	70.	0.	0.00	1.00	1.	1	60
43	1560006912117	BOLT,RETAINING,C	7.	0.0	0.000045	0.00	270.	70.	0.	0.00	1.00	1.	1	80
44	1560007922324	BOOT,DUST AND MO	60.	0.0	0.000361	0.00	177.	70.	0.	0.00	1.00	1.	1	20
45	1560008426013	BELL CRANK	147.	0.0	0.000045	0.00	201.	70.	0.	0.00	1.00	1.	1	20
46	1560008727847	FAIRING ASSEMBLY	128.	0.0	0.000497	0.00	156.	70.	0.	0.00	1.00	1.	1	20
47	1560008770165	IDLER ASSEMBLY,A	68.	0.0	0.000045	0.00	90.	70.	0.	0.00	1.00	1.	1	21
48	1560008887348	FORCE GRADIENT A	114.	0.0	0.000045	0.00	141.	100.	30.	0.00	0.00	1.	1	14
49	1560008989417	VALVE	470.	0.0	0.000316	0.46	90.	95.	25.	0.54	0.00	1.	1	80
50	1560009031018	MOUNT,IDLER,PYLO	530.	0.0	0.000136	0.00	147.	100.	30.	0.00	0.00	1.	1	20

ITEMS RANK ORDERED IN NORMAL INPUT ORDER

PART	MSN	DESCRIPTION	COST	OST	FAIL RT	NRTS	BCY	DCY	DRT	BCON	DCON	OPA	ESS	INVEN
51	1560009188099	LEVER,ELEVATOR,A	119.	0.	0.000008	0.00	90.	70.	0.	0.00	1.00	2.	1	60
52	1560009275781	HORN ASSY ELEVAT	267.	0.	0.000136	0.00	30.	70.	0.	0.40	0.00	1.	1	20
53	1560009716235	WALKING BEAM ASS	58.	0.	0.000030	0.00	30.	70.	0.	0.05	0.00	1.	1	1
54	1560009716236	BELL CRANK	110.	0.	0.000271	0.00	69.	70.	0.	0.00	0.00	1.	1	6
55	1560009716324	BELL CRANK	106.	0.	0.000039	0.00	123.	100.	30.	0.00	0.99	1.	1	5
56	1560009731754	TANK,LUBRICATING	163.	0.	0.000022	0.00	0.	75.	5.	0.00	0.00	1.	1	20
57	1560009902911	JACKSHAFT ASSEMB	403.	0.	0.000045	0.00	90.	70.	0.	0.00	0.00	1.	1	2
58	1560010125788	LINK ASSEMBLY,LI	423.	0.	0.000088	0.87	156.	100.	30.	0.13	0.00	1.	1	80
59	1560010185919	FUEL TANK FWD	4154.	0.	0.000030	0.50	30.	75.	5.	0.00	0.48	1.	1	20
60	1560010258545	GUNNER DOOR PLEX	600.	0.	0.000090	0.00	0.	70.	0.	1.00	0.00	1.	1	60
61	1560010258546	PLIOT DOOR PLEXI	668.	0.	0.000090	0.00	0.	70.	0.	1.00	0.00	1.	1	60
62	1560010268910	BELL CRANK	125.	0.	0.000015	1.00	48.	70.	0.	0.00	1.00	1.	1	2
63	1560010280472	TOP CANOPY PLEXI	877.	0.	0.000136	0.00	0.	70.	0.	1.00	0.00	1.	1	2
64	1560010280474	PILOT WINDOW PLE	650.	0.	0.000045	0.00	0.	70.	0.	1.00	0.00	1.	1	20
65	1560010280475	WINDSHLD LOW PLE	802.	0.	0.000407	0.00	0.	70.	0.	1.00	0.00	1.	1	60
66	1560010280476	WINDSHLD UPP PLE	1037.	0.	0.000271	0.00	0.	70.	0.	1.00	0.00	1.	1	20
67	1560010281090	BEAM ASSEMBLY,AN	112.	0.	0.000015	0.00	24.	70.	0.	0.00	1.00	1.	1	20
68	1560010685318	RECEIVER,REFUELI	940.	0.	0.001672	0.00	153.	100.	30.	0.00	0.00	1.	1	20
69	1560010710203	GUNN WINDOW PLEX	1636.	0.	0.000045	0.00	0.	70.	0.	1.00	0.00	1.	1	20
70	1560010927085	CLEVIS	10.	0.	0.000542	0.00	0.	70.	0.	1.00	0.00	1.	1	20
71	1560011001938	GUN ARMOR UPP LH	1052.	0.	0.000022	0.00	0.	70.	0.	1.00	0.00	1.	1	20
72	1560011001939	PILOT ARMOR U-RH	2106.	0.	0.000026	0.00	0.	70.	0.	1.00	0.00	1.	1	20
73	1560011001963	GUN ARMOR UPP RH	1951.	0.	0.000078	0.00	0.	70.	0.	1.00	0.00	1.	1	20
74	1560011002416	GUN SEAT BOT ARM	2935.	0.	0.000030	0.00	0.	70.	0.	1.00	0.00	1.	1	20
75	1560011008429	PILOT LWR ARMOR	1129.	0.	0.000015	0.00	15.	70.	0.	0.70	0.00	1.	1	20
76	1560011181770	RACK,EXTERNAL ST	4137.	0.	0.000045	0.67	207.	100.	30.	0.33	0.00	1.	1	20
77	1615000307199	RETAINER,MAIN RO	43.	0.	0.000090	1.00	120.	70.	0.	0.00	1.00	2.	1	20
78	1615000336314	TRUNNION,MAIN RO	429.	0.	0.000045	1.00	261.	100.	30.	0.00	0.99	1.	1	20
79	1615000548568	COLLET SET,ROTOR	233.	0.	0.001085	1.00	216.	70.	0.	0.00	1.00	1.	1	20
80	1615000701130	DAMPER ASSEMBLY.	1445.	0.	0.001537	1.00	162.	100.	30.	0.00	0.99	1.	1	20
81	1615001685859	LINK ASSY,SWASH	188.	0.	0.002215	1.00	336.	100.	30.	0.00	0.99	2.	1	120
82	1615001685863	SCISSORS AND SLE	1823.	0.	0.000271	1.00	0.	83.	13.	0.00	0.00	1.	1	100
83	1615001724519	TRUNNION SET ASS	352.	0.	0.000090	1.00	90.	70.	0.	0.00	1.00	1.	1	60
84	1615001724520	YOKE ASSEMBLY,TA	2389.	0.	0.000542	1.00	141.	100.	30.	0.00	0.99	1.	1	20
85	1615001799165	MAST ASSY,TRANSM	6646.	0.	0.000587	0.00	156.	111.	41.	1.00	0.52	1.	1	60
86	1615002542175	BLADE,ROTARY RUD	2550.	0.	0.001175	1.00	99.	70.	0.	0.00	1.00	2.	1	80
87	1615002542191	RETAINER,TAIL RO	35.	0.	0.000045	1.00	90.	70.	0.	0.00	1.00	1.	1	60
88	1615003160610	HUB ASSEMBLY,TAI	2425.	0.	0.000316	1.00	159.	100.	30.	0.00	0.99	1.	1	60
89	1615003467659	CROSSHEAD ASSEMB	980.	0.	0.000090	1.00	90.	70.	0.	0.00	1.00	1.	1	60
90	1615003891950	BLADE,ROTARY WIN	7713.	0.	0.001129	0.00	42.	110.	40.	1.00	0.00	2.	1	160
91	1615004105925	CHAFING STRIP,YO	0.	0.	0.002305	0.00	147.	70.	0.	0.00	1.00	4.	1	80
92	1615004386344	DETECTOR,CHIP,TR	67.	0.	0.000225	0.00	0.	70.	0.	0.00	1.00	17.	1	120
93	1615004422513	SCISSORS ASSY,SW	791.	0.	0.000066	0.00	90.	100.	30.	0.00	0.00	2.	1	20
94	1615004776304	CHIP DETECTOR,TR	42.	0.	0.000451	0.00	141.	100.	30.	0.00	0.00	1.	1	80
95	1615004821068	EXTENSION,PYLON	438.	0.	0.000090	0.00	150.	70.	0.	0.00	1.00	1.	1	60
96	1615006250038	CONE SET,TRUNNIO	12.	0.	0.000045	1.00	183.	70.	0.	0.00	1.00	1.	1	20
97	1615006907290	CAP ASSEMBLY,TAI	8.	0.	0.000045	1.00	264.	100.	30.	0.00	0.00	1.	1	80
98	1615007014142	COUPLING DRIVESH	208.	0.	0.000225	0.97	87.	100.	30.	0.03	0.00	1.	1	120
99	1615007019935	CAP ASSEMBLY	5.	0.	0.000045	0.00	81.	70.	0.	0.00	1.00	1.	1	80
100	1615007612537	COUPLING SET	253.	0.	0.000090	0.00	159.	70.	0.	0.00	1.00	2.	1	20

ITEMS RANK ORDERED IN NORMAL INPUT ORDER

PART	MSN	DESCRIPTION	COST	OST	FAIL RT	NRTS	BCY	DCY	DRT	BCON	DCON	OPA	ESS	INVEN
101	1615007711432	LINK ASSEMBLY,SW	308.	0.	0.000361	0.00	336.	100.	30.	0.00	0.00	1.	1	4
102	1615008130391	PITCH HORN ASSEM	461.	0.	0.000005	0.00	45.	70.	0.	0.00	1.00	2.	1	4
103	1615008396886	QUILL ASSEMBLY,G	1413.	0.	0.000045	0.38	165.	111.	41.	0.62	0.10	1.	1	20
104	1615008519167	TR DR SHF CV AFT	187.	0.	0.000006	0.00	15.	70.	0.	0.10	0.00	1.	1	20
105	1615008519168	COVER ASSEMBLY,F	260.	0.	0.000009	1.00	489.	70.	0.	0.00	1.00	1.	1	4
106	1615008526712	SHAFT,DROOP COMP	37.	0.	0.000045	1.00	102.	70.	0.	0.00	1.00	1.	1	20
107	1615008665998	RING,INDEXING,ST	34.	0.	0.000181	1.00	249.	70.	0.	0.00	1.00	2.	1	20
108	1615008718679	SUPPORT,SWASHPLA	206.	0.	0.000045	1.00	180.	70.	0.	0.00	0.00	1.	1	1
109	1615009066424	YOKE ASSEMBLY,MA	9309.	0.	0.000022	0.64	225.	83.	13.	0.36	0.15	1.	1	11
110	1615009086459	SLEEVE,COLLECTIV	621.	0.	0.000001	1.00	138.	70.	0.	0.00	1.00	1.	1	20
111	1615009113705	GRIP ASSEMBLY,MA	10424.	0.	0.000022	0.53	45.	110.	40.	0.47	0.15	2.	1	20
112	1615009146124	LINK ASSEMBLY,CO	1130.	0.	0.000090	1.00	237.	100.	30.	0.00	0.00	1.	1	60
113	1615009146160	SWASHPLATE AND S	3568.	0.	0.000226	0.05	90.	104.	34.	0.95	0.20	1.	1	20
114	1615009188144	PLATE,RETAINER,S	522.	0.	0.000045	0.00	156.	70.	0.	0.00	1.00	1.	1	20
115	1615009189326	BOOT,FRICTION,MA	20.	0.	0.000361	0.00	120.	70.	0.	0.00	1.00	1.	1	20
116	1615009189938	BELL CRANK	101.	0.	0.000678	0.00	234.	70.	0.	0.00	1.00	1.	1	20
117	1615009305204	CLAMP,ROTOR	77.	0.	0.000090	0.00	90.	70.	0.	0.00	1.00	3.	1	21
118	1615009362371	BOLT ASSEMBLY,RO	258.	0.	0.000022	0.00	123.	70.	0.	0.00	1.00	2.	1	20
119	1615010082798	SHAFT ASSEMBLY,T	619.	0.	0.000768	0.50	78.	92.	22.	0.50	0.40	10.	1	80
120	1615010087743	QUILL ASSEMBLY,T	3727.	0.	0.000090	0.40	132.	100.	30.	0.60	0.00	1.	1	80
121	1615010087748	GEARBOX ASSEMBLY	11450.	0.	0.000633	0.00	132.	100.	30.	1.00	0.00	1.	1	80
122	1615010087769	FILTER,FLUID,PRE	120.	0.	0.000090	1.00	99.	100.	30.	0.00	0.00	1.	1	80
123	1615010146005	DRIVE ASSEMBLY,I	3481.	0.	0.000542	0.00	120.	100.	30.	1.00	0.10	1.	1	20
124	1615010146007	HUB ASSEMBLY,MAI	57312.	0.	0.001536	0.03	126.	100.	30.	0.97	0.00	1.	1	100
125	1615010146008	HANGER ASSEMBLY	1267.	0.	0.001762	1.00	96.	100.	30.	0.00	0.99	3.	1	100
126	1615010150584	GEARBOX ASSEMBLY	9357.	0.	0.000362	0.22	156.	100.	30.	0.78	0.00	2.	1	100
127	1620001060033	CROSS TUBE ASSY,	537.	0.	0.001446	1.00	294.	100.	30.	0.00	0.00	1.	1	20
128	1620001060034	CROSS TUBE ASSY,	1287.	0.	0.001220	0.00	30.	70.	0.	0.40	0.00	1.	1	20
129	1620001060035	FAIRING ASSY,LAN	39.	0.	0.000814	0.00	78.	70.	0.	0.00	1.00	1.	1	20
130	1620001060036	FAIRING ASSY,LAN	39.	0.	0.000407	0.00	111.	100.	30.	0.00	0.00	1.	1	20
131	1620001685559	SUPPORT,LANDING	58.	0.	0.000407	0.00	180.	70.	0.	0.00	1.00	2.	1	20
132	1620001685605	SUPPORT,LANDING	52.	0.	0.000452	0.00	189.	70.	0.	0.00	1.00	2.	1	20
133	1620007255721	FAIRING ASSY,LAN	36.	0.	0.000542	0.00	357.	100.	30.	0.00	0.00	1.	1	20
134	1620007255724	FAIRING ASSY,LAN	51.	0.	0.000678	0.00	120.	100.	30.	0.00	0.00	1.	1	20
135	1630002470249	SKID TUBE ASSEMB	982.	0.	0.003299	0.00	30.	70.	0.	0.40	0.00	1.	1	60
136	1630002470251	SKID TUBE ASSEMB	686.	0.	0.003119	0.00	165.	100.	30.	0.00	0.99	1.	1	80
137	1630009189655	SKID SHOE,LANDIN	60.	0.	0.003977	0.00	195.	70.	0.	0.00	1.00	2.	1	80
138	1650000119022	SERVOCYLINDER	3397.	0.	0.000226	0.39	90.	146.	76.	0.61	0.10	3.	1	20
139	1650000142038	SERVOCYLINDER	980.	0.	0.000361	0.00	72.	104.	34.	0.00	0.99	3.	1	20
140	1650004645771	HOUSING ASSY,SER	1160.	0.	0.000039	0.00	0.	70.	0.	1.00	0.00	1.	1	20
141	1650005637144	ACTUATOR,SERVO,F	1658.	0.	0.000090	0.84	141.	110.	40.	0.16	0.10	2.	1	80
142	1650008397078	VALVE,HYDRAULIC,	408.	0.	0.000136	0.49	309.	102.	32.	0.51	0.35	2.	1	80
143	1650008504700	FILTER,FLUID	35.	0.	0.000039	0.00	84.	70.	0.	0.00	1.00	6.	1	80
144	1650008777186	ACCUMULATOR,HYDR	323.	0.	0.000090	0.00	90.	100.	30.	0.00	0.00	1.	1	20
145	1650009191359	FITTING AND FILT	28.	0.	0.000361	0.00	48.	70.	0.	0.00	1.00	2.	1	28
146	1650009352245	BOOT,DUST AND MO	19.	0.	0.000271	0.00	138.	70.	0.	0.00	1.00	1.	1	20
147	1650010163572	SERVOCYLINDER	7667.	0.	0.000588	0.00	90.	100.	30.	1.00	0.00	3.	1	100
148	1650010264740	TUBE ASSEMBLY,AC	968.	0.	0.000044	0.00	111.	70.	0.	0.00	1.00	1.	1	60
149	1650010264741	BODY,LINK,ACTUAT	599.	0.	0.000136	0.00	345.	70.	0.	0.00	1.00	1.	1	20
150	1650010284594	TUBE ASSY,ACTUAT	541.	0.	0.000090	0.00	282.	70.	0.	0.00	1.00	1.	1	20

ITEMS RANK ORDERED IN NORMAL INPUT ORDER

PART	MSN	DESCRIPTION	COST	OST	FAIL RT	NRTS	BCY	DCY	DRT	BCON	DCON	QPA	ESS	INVEN
151	1650010596006	HYDRAULIC UNIT,M	4810.	0.	0.000045	0.00	174.	100.	30.	0.00	0.00	1.	1	20
152	1660004454666	FILTER ASSY,HEAT	46.	0.	0.000181	0.00	66.	100.	30.	0.00	0.00	1.	1	80
153	1680020189343	CONTROL STICK,CY	386.	0.	0.000001	0.00	90.	100.	30.	0.00	0.00	1.	1	20
154	1680000543600	CONTROL STICK,AI	77.	0.	0.000090	0.00	30.	70.	0.	0.10	0.00	1.	1	20
155	1680000899674	BELL CRANK	98.	0.	0.000136	0.00	90.	70.	0.	0.00	1.00	1.	1	20
156	1680000899771	BELL CRANK	410.	0.	0.000066	0.00	90.	110.	40.	0.00	0.00	1.	1	20
157	1680001152643	SUPPORT,POWER CY	465.	0.	0.000030	0.00	90.	100.	30.	0.00	0.00	1.	1	20
158	1680001152659	SUPPORT,POWER CY	365.	0.	0.000030	0.00	90.	100.	30.	0.00	0.00	1.	1	20
159	1680004844280	LEVER ASSY,TORQU	161.	0.	0.000022	0.00	123.	70.	0.	0.00	1.00	1.	1	20
160	1680006064060	PEDAL ASSEMBLY,R	90.	0.	0.000003	0.00	60.	100.	30.	0.00	0.00	2.	1	20
161	1680006177715	PEDAL ASSEMBLY,R	88.	0.	0.000002	0.00	30.	70.	0.	0.40	0.00	1.	1	20
162	1680008721154	RESERVOIR ASSEMB	458.	0.	0.000136	0.00	165.	100.	30.	0.00	0.00	2.	1	56
163	1680009098716	BRAKE,MAGNETIC	173.	0.	0.000271	0.00	195.	100.	30.	0.00	0.00	3.	1	20
164	1680009109671	BELL CRANK	73.	0.	0.000030	0.00	90.	70.	0.	0.00	1.00	1.	1	2
165	1680009146104	LEVER ASSEMBLY,C	112.	0.	0.000039	0.00	30.	70.	0.	0.10	0.00	1.	1	20
166	1680009146269	BELL CRANK	99.	0.	0.000001	0.00	90.	70.	0.	0.00	1.00	1.	1	20
167	1680009146273	BELL CRANK	117.	0.	0.000030	0.00	90.	70.	0.	0.00	1.00	1.	1	20
168	1680009146275	BELL CRANK	147.	0.	0.000001	0.00	90.	70.	0.	0.00	1.00	1.	1	20
169	1680009146289	BELL CRANK	47.	0.	0.000020	0.00	15.	70.	0.	0.05	0.00	2.	1	7
170	1680009146323	BELL CRANK	68.	0.	0.000001	0.00	90.	70.	0.	0.00	1.00	1.	1	20
171	1680009146326	BELL CRANK ASSEM	134.	0.	0.000030	0.00	90.	70.	0.	0.00	1.00	1.	1	20
172	1680009148697	IDLER ASSEMBLY,C	113.	0.	0.000030	0.00	90.	70.	0.	0.00	1.00	1.	1	20
173	1680009165442	BELL CRANK ASSY,	68.	0.	0.000030	0.00	90.	70.	0.	0.00	1.00	1.	1	20
174	1680009186199	LINK,CYCLIC CONT	143.	0.	0.000030	0.00	90.	70.	0.	0.00	1.00	1.	1	20
175	1680009186384	BELL CRANK ASSEM	154.	0.	0.000136	0.00	108.	70.	0.	0.00	1.00	1.	1	20
176	1680009186387	BELL CRANK ASSEM	62.	0.	0.000005	0.00	90.	70.	0.	0.00	1.00	1.	1	20
177	1680009186412	SUPPORT,CYCLIC C	88.	0.	0.000039	0.00	90.	70.	0.	0.00	1.00	1.	1	21
178	1680009186413	BELL CRANK ASSEM	87.	0.	0.000030	0.00	90.	70.	0.	0.00	1.00	1.	1	20
179	1680009188132	BELL CRANK	41.	0.	0.000045	0.00	7.	70.	0.	0.50	0.00	1.	1	20
180	1680009188412	LEVER ASSEMBLY,G	50.	0.	0.000045	0.00	90.	70.	0.	0.00	1.00	1.	1	20
181	1680009192369	GRADIENT ASSEMBL	126.	0.	0.000136	0.00	222.	100.	30.	0.00	0.00	2.	1	60
182	1680009232926	BOOT ASSEMBLY,SE	8.	0.	0.000497	0.00	219.	70.	0.	0.00	1.00	2.	1	20
183	1680009312295	BOOT ASSEMBLY,GU	35.	0.	0.000088	0.00	99.	70.	0.	0.00	1.00	1.	1	20
184	1680009312298	COVER ASSEMBLY,R	24.	0.	0.000039	0.00	108.	70.	0.	0.00	1.00	1.	1	20
185	1680009671821	STRAP,WEBBING,TA	3.	0.	0.000045	0.00	126.	70.	0.	0.00	1.00	1.	1	20
186	1680009750507	SCK ASSEMBLY,GUN	1840.	0.	0.000022	0.00	63.	110.	40.	0.00	0.99	1.	1	17
187	1680010249409	PILOT COLL STICK	3211.	0.	0.000022	0.00	30.	70.	0.	0.40	0.00	1.	1	20
188	1680010249434	COVER PILOT COLL	31.	0.	0.000066	0.00	0.	70.	0.	1.00	0.00	1.	1	20
189	1680010281454	PILOTS SEAT	9584.	0.	0.000008	0.00	15.	70.	0.	0.20	0.00	1.	1	20
190	1680010281456	GUNNER SEAT BOTT	2935.	0.	0.000001	0.00	0.	70.	0.	1.00	0.00	1.	1	20
191	1680010288298	PANEL INDICATING	2652.	0.	0.000090	0.00	30.	70.	0.	0.10	0.00	1.	1	5
192	1680010540331	PANEL INDICATING	903.	0.	0.000271	0.00	30.	70.	0.	0.40	0.00	1.	1	20
193	1680010676909	PILOT ACQUIS PAN	36.	0.	0.000030	0.00	0.	70.	0.	1.00	0.00	1.	1	20
194	1680010715417	PANEL CAUTION	2339.	0.	0.000542	0.00	30.	70.	0.	0.10	0.00	1.	1	20
195	2840001147672	SEAL RING,METAL	59.	0.	0.000020	1.00	126.	70.	0.	0.00	1.00	2.	1	20
196	2840001763758	BLADE SET COMP	41.	0.	0.000027	0.00	0.	70.	0.	1.00	0.00	1.	1	20
197	2840001763759	BLADE SET COMP	58.	0.	0.000027	0.00	0.	70.	0.	1.00	0.00	1.	1	20
198	2840001763773	BLADE SET COMP	100.	0.	0.000027	0.00	0.	70.	0.	1.00	0.00	1.	1	20
199	2842001763780	BLADE,COMPRESSOR	51.	0.	0.000001	1.00	153.	70.	0.	0.00	1.00	31.	1	20
200	2843001763789	BLADE SET COMP	40.	0.	0.000027	0.00	0.	70.	0.	1.00	0.00	1.	1	20

ITEMS RANK ORDERED IN NORMAL INPUT ORDER

PART	MSN	DESCRIPTION	COST	OST	FAIL RT	NRTS	BCY	DCY	DRT	BCON	DCON	QPA	ESS	INVEN
201	2840005709811	SEAL,TUBING,ENG	2.	0.	0.000090	0.00	0.	70.	0.	1.00	0.00	1.	1	20
202	2840005211860	ENGINE,AIRCRAFT,	560550.	0.	0.000316	0.15	180.	116.	46.	0.85	0.00	1.	1	100
203	2840006568523	HOUSING, SEAL	25.	0.	0.000022	0.00	0.	70.	0.	1.00	0.00	1.	1	20
204	2840007274663	ACC DRIVE GEARBO	6486.	0.	0.000022	1.00	0.	100.	30.	0.00	0.02	1.	1	20
205	2840007668645	LOCK RING	8.	0.	0.000022	0.00	0.	70.	0.	1.00	0.00	1.	1	20
206	2840007821771	VALVE,LINEAR	318.	0.	0.000044	0.25	10.	100.	30.	0.00	0.05	1.	1	20
207	2840009252973	TUBE ASY INLET G	10.	0.	0.000045	0.00	0.	70.	0.	1.00	0.00	1.	1	20
208	2840009259621	VANE ASY COMPRES	228.	0.	0.000030	0.00	0.	70.	0.	1.00	0.00	1.	1	20
209	2840009259644	VANE ASSY	228.	0.	0.000030	0.00	0.	70.	0.	1.00	0.00	1.	1	20
210	2840009259747	CUP,LOCK PWR TUR	12.	0.	0.000045	0.00	0.	70.	0.	1.00	0.00	1.	1	20
211	2840009432382	NOZZLE TURBINE	2158.	0.	0.000039	1.00	0.	104.	34.	0.00	0.00	1.	1	20
212	2840009455619	PLATE,LOCKING	0.	0.	0.000045	0.00	0.	70.	0.	1.00	0.00	1.	1	20
213	2840009462416	VANE ASSEMBLY	216.	0.	0.000022	0.00	0.	70.	0.	1.00	0.00	1.	1	20
214	2840009944302	HOUSING,ASY F CN	16.	0.	0.000136	0.00	0.	70.	0.	1.00	0.00	1.	1	20
215	2840010085730	CASE	2889.	0.	0.000030	0.00	0.	100.	30.	0.00	0.02	1.	1	20
216	2910008039525	FILTER ELEMENT,F	3.	0.	0.001084	0.00	90.	70.	0.	0.00	1.00	1.	1	80
217	2915000035903	VALVE,FUEL,MANIF	161.	0.	0.000136	0.00	114.	100.	30.	0.00	0.00	1.	1	20
218	2915000035904	FILTER,FLUID	311.	0.	0.000497	0.00	159.	100.	30.	0.00	0.00	1.	1	20
219	2915000180012	FUEL PUMP	271.	0.	0.000903	0.00	0.	75.	5.	0.00	0.00	2.	1	20
220	2915007823819	NOZZLE FUEL	93.	0.	0.000039	0.00	0.	70.	0.	1.00	0.00	4.	1	20
221	2915009243560	VALVE,FUEL DRAIN	55.	0.	0.000045	0.00	0.	70.	0.	1.00	0.00	1.	1	20
222	2915010059196	GOVERNOR	6323.	0.	0.000226	1.00	0.	100.	30.	0.00	0.02	1.	1	20
223	2915010059197	FUEL CNTL	32421.	0.	0.000316	1.00	0.	100.	30.	0.00	0.02	1.	1	20
224	2925008681795	WIRING HARNESS	267.	0.	0.000045	0.00	0.	70.	0.	1.00	0.00	1.	1	20
225	2925009579947	IGNITER PLUG	16.	0.	0.000226	0.00	0.	70.	0.	1.00	0.00	4.	1	20
226	2935001778331	COOLER,LUBRICATI	1319.	0.	0.000045	0.00	204.	110.	40.	1.00	0.50	1.	1	100
227	2935005437296	TURBINE FAN,ENGI	1986.	0.	0.000271	0.44	162.	100.	30.	0.56	0.00	2.	1	80
228	2935008086742	DUCT,OIL COOLER	374.	0.	0.000316	0.00	120.	100.	30.	0.00	0.00	1.	1	20
229	2935008218752	VALVE,THERMOSTAT	100.	0.	0.000090	0.00	96.	90.	20.	0.00	1.00	1.	1	60
230	2935008771113	COOLER,FLUID,TRA	271.	0.	0.000136	0.50	75.	94.	24.	0.50	0.53	1.	1	20
231	2945000190280	FUEL AND OIL KIT	5.	0.	0.000542	0.00	198.	70.	0.	0.00	1.00	1.	1	20
232	2945004422539	AIR FILTER ASSY,	3206.	0.	0.000009	0.00	189.	100.	30.	0.00	0.10	1.	1	80
233	2945004422544	AIR FILTER ASSEM	2292.	0.	0.000045	0.80	192.	94.	24.	0.20	0.25	1.	1	20
234	2945004422555	CLEANER,AIR,SAND	438.	0.	0.000180	0.00	279.	100.	30.	0.00	0.00	1.	1	80
235	2995001104361	SCREENPARTICLE S	283.	0.	0.000045	0.00	132.	100.	30.	0.00	0.00	1.	1	20
236	2995001104364	SCREEN,PARTICLE	199.	0.	0.000045	0.00	141.	70.	0.	0.00	1.00	1.	1	20
237	2995008778094	LEVER AND BEARIN	196.	0.	0.000090	0.00	90.	70.	0.	0.00	1.00	1.	1	20
238	2995008793108	SHIELD ASSEMBLY	151.	0.	0.000045	0.00	213.	70.	0.	0.00	1.00	1.	1	56
239	2995009277549	CAMBOX ASSY,DROO	135.	0.	0.000090	0.00	237.	100.	30.	0.00	0.00	1.	1	20
240	2995009502516	IGNITION UNIT	473.	0.	0.000030	0.00	0.	70.	0.	1.00	0.00	1.	1	20
241	3010006177707	COUPLING,SHAFT,R	44.	0.	0.000015	0.00	120.	70.	0.	0.00	1.00	2.	1	60
242	3010009576866	CLAMP,COUPLING	30.	0.	0.000042	0.00	165.	100.	30.	0.00	0.00	10.	1	90
243	3040001034630	CONNECTING LINK	108.	0.	0.000022	0.00	180.	70.	0.	0.00	1.00	1.	1	20
244	3040001039485	CONNECTING LINK,	213.	0.	0.000020	0.00	90.	70.	0.	0.00	1.00	1.	1	20
245	3040001230566	CONNECTING LINK,	4.	0.	0.000090	0.00	90.	70.	0.	0.00	1.00	2.	1	20
246	3040004106334	CONNECTING LINK,	125.	0.	0.000022	0.00	114.	70.	0.	0.00	1.00	1.	1	60
247	3040004464436	CONNECTING LINK,	251.	0.	0.000044	0.00	162.	70.	0.	0.00	1.00	1.	1	20
248	3040008770102	CONNECTING LINK,	195.	0.	0.000044	0.00	90.	70.	0.	0.00	1.00	1.	1	1
249	3040008776573	CONNECTING LINK,	178.	0.	0.000045	0.00	285.	70.	0.	0.00	1.00	1.	1	49
250	3040008784915	CONNECTING LINK,	189.	0.	0.000008	0.00	90.	70.	0.	0.00	1.00	1.	1	20

ITEMS RANK ORDERED IN NORMAL INPUT ORDER

RANK	MCN	DESCRIPTION	COST	OST	FAIL RT	NRTS	BCY	DCY	DRT	BCON	UCON	QPA	ESS	INVEN
251	3040009318273	CONNECTING LINK,	358.	0.0	.000030	0.00	90.	70.	0.	0.00	0.00	1.	1	21
252	[illegible]318274	CONNECTING LINK,	252.	0.0	.000196	0.00	90.	70.	0.	0.00	1.00	1.	1	49
253	3040009318275	CONNECTING LINK,	127.	0.0	.000045	0.00	177.	70.	0.	0.00	1.00	1.	1	49
254	3040009318276	CONNECTING LINK,	120.	0.0	.000010	0.00	90.	70.	0.	0.00	0.00	1.	1	20
255	3040009318279	CONNECTING LINK,	114.	0.0	.000022	0.00	177.	70.	0.	0.00	1.00	1.	1	21
256	3040009318281	CONNECTING LINK,	92.	0.0	.000039	0.00	90.	70.	0.	0.00	1.00	1.	1	49
257	3040009318282	CONNECTING LINK,	173.	0.0	.000030	0.00	90.	70.	0.	0.00	0.00	1.	1	21
258	3040009318286	CONNECTING LINK,	181.	0.0	.000030	0.00	90.	70.	0.	0.00	1.00	1.	1	20
259	3040009318288	CONNECTING LINK,	73.	0.0	.000030	0.00	90.	70.	0.	0.00	1.00	1.	1	49
260	3040009318289	CONNECTING LINK,	179.	0.0	.000030	0.00	90.	70.	0.	0.00	1.00	1.	1	49
261	3040009318290	CONNECTING LINK,	122.	0.0	.000030	0.00	90.	70.	0.	0.00	1.00	1.	1	21
262	3040009318291	CONNECTING LINK,	144.	0.0	.000123	0.00	270.	70.	0.	0.00	1.00	1.	1	21
263	3040009318292	CONNECTING LINK,	136.	0.0	.000002	0.00	90.	70.	0.	0.00	1.00	1.	1	21
264	3040009318304	CONNECTING LINK,	141.	0.0	.000039	0.00	90.	70.	0.	0.00	1.00	1.	1	21
265	3040009321190	CONNECTING LINK,	151.	0.0	.000059	0.00	90.	70.	0.	0.00	1.00	1.	1	1
266	3040009321194	CONNECTING LINK,	126.	0.0	.000044	0.00	123.	70.	0.	0.00	0.00	1.	1	1
267	3040009716232	CONNECTING LINK,	81.	0.0	.000002	0.00	309.	70.	0.	0.00	0.00	4.	1	80
268	3040009716295	CONNECTING LINK,	146.	0.0	.000088	0.00	90.	70.	0.	0.00	1.00	2.	1	20
269	3040009772663	CONNECTING LINK,	137.	0.0	.000039	0.00	90.	70.	0.	0.00	1.00	1.	1	21
270	3040010280016	ROD	263.	0.0	.000022	0.00	0.	70.	0.	1.00	0.00	1.	1	2
271	3040010311200	TUBE ASY TR CNTL	276.	0.0	.000010	0.00	15.	70.	0.	0.50	0.00	1.	1	20
272	3110005244569	BEARING, UNIVERSA	320.	0.0	.000181	1.00	162.	70.	0.	0.00	1.00	2.	1	20
273	3110007273032	BEARING, BALL, ANN	146.	0.0	.000045	1.00	0.	100.	30.	0.00	0.02	2.	1	20
274	3110010158831	BEARING ROLLER	289.	0.0	.000045	0.00	0.	70.	0.	1.00	0.00	3.	1	20
275	3110010304306	BEARING, BALL, ANN	40.	0.0	.000286	1.00	396.	70.	0.	0.00	1.00	1.	1	20
276	[illegible]004095164	BEARING, SLEEVE	21.	0.0	.000045	1.00	90.	70.	0.	0.00	1.00	1.	1	20
277	3120007715927	BUSHING, SLEEVE	7.	0.0	.000181	1.00	225.	70.	0.	0.00	1.00	2.	1	21
278	3120007715938	BUSHING, SLEEVE	20.	0.0	.000242	1.00	207.	70.	0.	0.00	1.00	2.	1	21
279	3120007726188	BEARING, SLEEVE	14.	0.0	.000008	1.00	171.	70.	0.	0.00	1.00	4.	1	20
280	[illegible]20008973758	BEARING, ROD END	7.	0.0	.000004	1.00	102.	90.	20.	0.00	1.00	1.	1	100
281	[illegible]20009049829	BEARING INLET GD	6.	0.0	.000020	0.00	0.	70.	0.	1.00	0.00	2.	1	20
282	[illegible]0009415553	BEARING, PLAIN, RO	15.	0.0	.000007	0.00	90.	70.	0.	0.00	1.00	3.	1	100
283	[illegible]0009746496	BEARING, SLEEVE	82.	0.0	.000633	0.00	162.	70.	0.	0.00	1.00	2.	1	20
284	[illegible]0009820804	BEARING, SLEEVE	93.	0.0	.000633	0.00	147.	70.	0.	0.00	1.00	2.	1	40
285	[illegible]830120	BEARING, PLAIN, RO	177.	0.0	.002621	0.00	216.	70.	0.	0.00	1.00	2.	1	80
286	[illegible]845653	BEARING, PLAIN, RO	43.	0.0	.000045	0.00	165.	70.	0.	0.00	1.00	1.	1	80
287	[illegible]304307	BEARING, PLAIN, RO	231.	0.0	.000136	0.00	102.	70.	0.	0.00	1.00	2.	1	20
288	[illegible]0001171068	BEARING UNIT, PLA	648.	0.0	.000181	1.00	162.	70.	0.	0.00	1.00	2.	1	20
289	[illegible]005305229	BEARING UNIT, ROL	25.	0.0	.000045	1.00	81.	100.	30.	0.00	0.00	2.	1	19
290	[illegible]009997611	WIRE ROPE ASSEMB	13.	0.0	.000723	1.00	102.	70.	0.	0.00	1.00	2.	1	20
291	[illegible]0010323705	FAN, VANEAXIAL	597.	0.0	.000001	0.26	207.	100.	30.	0.74	0.00	2.	1	20
292	[illegible]728798	PUMP, AXIAL	803.	0.0	.000197	3.00	0.	100.	30.	0.00	0.01	2.	1	20
293	[illegible]0097777480	PUMP, ROTARY	185.	0.0	.000045	1.00	0.	100.	30.	0.00	0.02	1.	1	20
294	[illegible]0010094531	PUMP HYD ELECTRI	5417.	0.0	.000542	1.00	0.	71.	1.	0.00	0.00	1.	1	80
295	[illegible]004427434	FILTER ELEMENT, F	8.	0.0	.001310	1.00	180.	70.	0.	0.00	1.00	1.	1	180
296	[illegible]001344[illegible]	VALVE, MODULATING	1108.	0.0	.000180	0.54	90.	110.	40.	0.46	0.00	1.	1	20
297	[illegible]004548819	TUBE ASSEMBLY, [illegible]	635.	0.0	.004429	0.00	51.	100.	30.	0.00	0.00	2.	1	20
298	[illegible]000665271	HOSE ASSEMBLY, NO	44.	0.0	.000090	0.00	189.	70.	0.	0.00	1.00	1.	1	20
299	[illegible]000691525	HOSE ASSY	15.	0.0	.000045	0.00	0.	70.	0.	0.10	0.00	1.	1	20
300	[illegible]001654714	HOSE ASSEMBLY, NO	76.	0.0	.000022	0.00	45.	70.	0.	0.00	1.00	1.	1	20

ITEMS RANK ORDERED IN NORMAL INPUT ORDER

PART	MSN	DESCRIPTION	COST	OST	FAIL RT	NRTS	BCY	DCY	DRT	BCON	DCON	QPA	ESS	INVEN
301	4720001819273	HOSE ASSEMBLY,NO	77.	0.	0.000045	0.00	168.	70.	0.	0.00	1.00	1.	1	100
302	4720001819280	HOSE ASSEMBLY,NO	1613.	0.	0.000003	0.00	135.	70.	0.	0.00	1.00	1.	1	100
303	4720001819286	HOSE ASSEMBLY,NO	25.	0.	0.000022	0.00	90.	70.	0.	0.00	1.00	1.	1	100
304	4720001819313	HOSE ASSEMBLY,NO	26.	0.	0.000406	0.00	111.	70.	0.	0.00	1.00	1.	1	100
305	4720001819318	HOSE ASSEMBLY,NO	18.	0.	0.000090	0.00	90.	70.	0.	0.00	1.00	1.	1	100
306	4720001926229	HOSE ASSEMBLY,NO	29.	0.	0.000078	0.00	45.	70.	0.	0.00	1.00	1.	1	60
307	4720008[illegible]2852	HOSE,AIR DUCT	11.	0.	0.000587	0.00	45.	70.	0.	0.00	1.00	4.	1	60
308	4720009937352	HOSE ASSEMBLY,NO	26.	0.	0.000118	0.00	90.	70.	0.	0.00	1.00	1.	1	20
309	4720010288308	HOSE ASSY	5.	0.	0.000452	0.00	0.	70.	0.	1.00	0.00	1.	1	20
310	4730000716244	COUPLING HALF,QU	147.	0.	0.000045	0.00	51.	70.	0.	0.00	1.00	2.	1	20
311	4730005239770	COUPLING MALE SP	432.	0.	0.000045	0.00	33.	70.	0.	0.00	1.00	4.	1	120
312	4730009884533	FITTING,LUBRICAN	26.	0.	0.000090	0.00	84.	100.	30.	0.00	0.00	1.	1	60
313	4810000815670	VALVE,SOLENOID	579.	0.	0.000045	0.00	0.	77.	7.	0.00	0.01	1.	1	20
314	4810000877692	VALVE,SOLENOID	68.	0.	0.000045	0.00	0.	70.	0.	1.00	0.00	1.	1	20
315	4810007582845	VALVE,CUTOFF	227.	0.	0.000045	0.65	147.	100.	30.	0.35	0.00	1.	1	20
316	4810009305102	VALVE,SOLENOID	120.	0.	0.000078	0.00	135.	70.	0.	0.00	1.00	1.	1	14
317	4810009312299	VALVE,LINEAR,DIR	295.	0.	0.000090	0.00	90.	70.	0.	0.00	1.00	3.	1	60
318	4810010280880	HYD SOL VALVE	219.	0.	0.000090	0.00	10.	70.	0.	0.20	0.00	3.	1	80
319	4820000914720	VALVE,AIR PRESSU	21.	0.	0.000045	0.00	90.	70.	0.	0.00	1.00	1.	1	20
320	4820001819230	COCK,POPPET DRAI	30.	0.	0.000181	0.00	189.	70.	0.	0.00	1.00	1.	1	80
321	4820001819247	COCK,POPPET DRAI	68.	0.	0.000136	0.00	66.	70.	0.	0.00	1.00	1.	1	80
322	4820004949613	VALVE,SELF CLOSI	48.	0.	0.000045	0.00	57.	70.	0.	0.00	1.00	1.	1	80
323	4820009230625	VALVE,CHECK	35.	0.	0.000045	0.00	75.	70.	0.	0.00	1.00	4.	1	60
324	4820009305273	VALVE,CHECK	55.	0.	0.000020	0.00	141.	70.	0.	0.00	1.00	6.	1	80
325	5306009056790	BOLT,SHEAR	9.	0.	0.000225	0.00	210.	70.	0.	0.00	1.00	4.	1	20
326	5310006245116	NUT,PLAIN,SPLINE	691.	0.	0.000045	0.00	36.	70.	0.	0.00	1.00	1.	1	20
327	5310009455750	WASHER KEY	0.	0.	0.000542	0.00	0.	70.	0.	1.00	0.00	6.	1	20
328	5330000597503	PACKING,PREFORME	0.	0.	0.000090	0.00	90.	70.	0.	0.00	1.00	1.	1	20
329	5330000783882	GASKET	0.	0.	0.000045	0.00	90.	70.	0.	0.00	1.00	1.	1	20
330	5330001695609	RING,WIPER	2.	0.	0.000451	0.00	0.	70.	0.	0.00	1.00	1.	1	60
331	5330001791224	SEAL,PLAIN ENCAS	13.	0.	0.000181	0.00	171.	70.	0.	0.00	1.00	1.	1	20
332	5330001995892	GASKET	0.	0.	0.000225	0.00	90.	70.	0.	0.00	1.00	1.	1	20
333	53300015002[illegible]	PACKING,PREFORME	0.	0.	0.000090	0.00	90.	70.	0.	0.00	1.00	3.	1	100
334	5330001609338	PACKING,PREFORME	0.	0.	0.000045	0.00	90.	70.	0.	0.00	1.00	2.	1	120
335	[illegible]0004553724	GASKET	7.	0.	0.000135	0.00	99.	70.	0.	0.00	1.00	2.	1	80
336	[illegible]	PACKING,PREFORME	0.	0.	0.000225	0.00	90.	70.	0.	0.00	1.00	13.	1	500
337	[illegible]49	PACKING,PREFORME	0.	0.	0.000045	0.00	90.	70.	0.	0.00	1.00	2.	1	120
338	5330005340149	PACKING,PREFORME	0.	0.	0.000045	0.00	90.	70.	0.	0.00	1.00	10.	1	460
339	53300061825[illegible]	PACKING,PREFORME	2.	0.	0.000180	0.00	0.	70.	0.	0.00	1.00	3.	1	100
340	53300062501[illegible]	SEAL,PLAIN	1.	0.	0.001084	0.00	138.	70.	0.	0.00	1.00	1.	1	360
[illegible]	53300065477[illegible]	PACKING,PREFORME	0.	0.	0.000406	0.00	90.	70.	0.	0.00	1.00	2.	1	80
[illegible]	[illegible]0007531064	SEAL	1.	0.	0.000022	0.00	0.	70.	0.	1.00	0.00	1.	1	20
[illegible]	[illegible]0007534432	SEAL,PLAIN ENCAS	2.	0.	0.000858	0.00	90.	70.	0.	0.00	1.00	1.	1	140
344	[illegible]0008245654	PACKING,PREFORME	0.	0.	0.000225	0.00	90.	70.	0.	0.00	1.00	6.	1	180
345	[illegible]00815949[illegible]	GASKET	0.	0.	0.000045	0.00	[illegible]	70.	0.	0.00	1.00	2.	1	100
346	[illegible]0008418711	PACKING,PREFORME	1.	0.	0.000316	0.00	[illegible]	70.	0.	0.00	1.00	1.	1	80
[illegible]	[illegible]0008471120	GASKET	0.	0.	0.000045	0.00	139.	70.	0.	0.00	1.00	4.	1	80
[illegible]	[illegible]0008524230	PACKING,PREFORME	0.	0.	0.000045	0.00	90.	70.	0.	0.00	1.00	1.	1	260
349	[illegible]0008571457	SEAL CASE	0.	0.	0.000136	0.00	0.	70.	0.	1.00	0.00	1.	1	20
[illegible]	[illegible]00082[illegible]050	PACKING,PREFORME	0.	0.	0.000406	0.00	0.	70.	0.	0.00	1.00	1.	1	80

ITEMS ... IN NORMAL INPUT ORDER

NO.	NSN	DESCRIPTION	COST	OST FAIL RT	NRTS	BCY	DCY	DRT	BCON	DCON	QPA	ESS	INVEN
351	[illegible]	SEAL PLAIN ENCAS	16.	0.0.000994	0.00	152.	70.	0.	0.00	1.00	2.	1	40
352	[illegible]	SEAL DUST GRIP S	92.	0.0.000568	0.00	0.	70.	0.	1.00	0.00	4.	1	20
353	[illegible]2245	SEAL PLAIN	1.	0.0.001988	0.00	0.	70.	0.	1.00	0.00	22.	1	20
354	[illegible]6498	PACKING PREFORME	1.	0.0.000316	0.00	102.	70.	0.	0.00	1.00	1.	1	360
355	3340000156566	DAMPER, SHIMMY	15.	0.0.000045	0.00	144.	70.	0.	0.00	1.00	1.	1	20
356	3340000167416	DAMPER, SHIMMY	30.	0.0.000090	0.00	93.	70.	0.	0.00	1.00	1.	1	20
357	[illegible]40000394569	MOUNT, RESILIENT	175.	0.0.000045	0.00	213.	70.	0.	0.00	1.00	1.	1	40
358	5340008720820	CLEVIS, ROD END	60.	0.0.000015	0.00	90.	70.	0.	0.00	1.00	3.	1	60
359	[illegible]3420091[illegible]7401	CLEVIS, ROD END	160.	0.0.000004	0.00	63.	70.	0.	0.00	1.00	9.	1	160
360	[illegible]601[illegible]354148	RADIO MAG INDICA	990.	0.0.000090	0.30	0.	160.	90.	1.00	0.00	1.	1	20
361	[illegible]95010531334	RT-1157 APX-100	9180.	0.0.000090	1.00	0.	160.	90.	0.00	0.00	1.	1	20
362	[illegible]5010[illegible]3402	AN APX-100 CNTL	1200.	0.0.000045	1.00	0.	160.	90.	0.00	0.00	1.	1	20
363	5925000427298	CIRCUIT BREAKER	22.	0.0.000045	1.00	30.	70.	0.	0.00	1.00	3.	1	60
364	5925008507244	CIRCUIT BREAKER	20.	0.0.000045	1.00	90.	70.	0.	0.00	1.00	19.	1	60
365	5930001563315	SWITCH (XMSN)	57.	0.0.000768	0.00	0.	70.	0.	1.00	0.00	1.	1	20
366	5930001760194	SWITCH, TOGGLE	29.	0.0.000181	1.00	78.	70.	0.	0.00	1.00	1.	1	60
367	5930004002798	SWITCH ASSEMBLY	86.	0.0.000045	1.00	105.	70.	0.	0.00	1.00	1.	1	20
368	5930008426470	SWITCH, LIMIT	100.	0.0.000407	1.00	123.	70.	0.	0.00	1.00	3.	1	60
369	5930010393139	SWITCH, PRESSURE	92.	0.0.000316	1.00	204.	70.	0.	0.00	1.00	2.	1	20
370	5945006317221	RELAY, ARMATURE	33.	0.0.000271	1.00	144.	70.	0.	0.00	1.00	1.	1	100
371	5945006317227	RELAY, ARMATURE	108.	0.0.000361	1.00	156.	70.	0.	0.00	1.00	1.	1	80
372	5945009959478	SOLENOID ELECT	480.	0.0.000044	0.00	0.	70.	0.	1.00	0.00	1.	1	20
373	5950010748720	TRANSFORMER, CURR	333.	0.0.000045	1.00	0.	70.	0.	0.00	1.00	1.	1	20
374	5985010350809	R/T UHF-AM	149.	0.0.000045	0.00	0.	70.	0.	1.00	0.00	1.	1	20
375	5990005528405	RESOLVER	113.	0.0.000088	1.00	195.	70.	0.	0.00	1.00	1.	1	20
376	[illegible]10004548843	REGULATOR	409.	0.0.000949	0.00	0.	70.	0.	1.00	0.00	1.	1	80
377	[illegible]5010568714	INVERTER 750KVA	4091.	0.0.000633	1.00	0.	75.	5.	0.00	0.00	1.	1	20
378	[illegible]001488342	STATIC INVERTER	2659.	0.0.000136	0.76	0.	787.	717.	1.00	0.11	1.	1	20
379	[illegible]1420001[illegible]3000	CONNECTOR, BATTER	61.	0.0.000045	1.00	90.	70.	0.	0.00	1.00	1.	1	60
380	6142007800025	BATTERY	657.	0.0.002124	0.01	0.	160.	90.	1.00	0.00	1.	1	20
381	[illegible]220003499294	LIGHT, COCKPIT, AI	18.	0.0.000406	1.00	90.	70.	0.	0.00	1.00	1.	1	80
382	[illegible]005005312992	TRAN REMOTE COMP	565.	0.0.000022	1.00	0.	100.	30.	0.00	0.10	1.	1	20
383	[illegible]2010[illegible]47159	SCAS SENSOR AMP	5600.	0.0.000005	0.00	0.	130.	60.	1.00	0.00	1.	1	20
384	[illegible]2501[illegible]47168	SCAS CNTL PANEL	1200.	0.0.000002	1.00	0.	160.	90.	0.00	0.25	1.	1	20
385	[illegible]250[illegible]047161	SCAS ARMAMNT AMP	405.	0.0.000084	0.00	0.	130.	60.	1.00	0.25	1.	1	20
386	[illegible]100005267849	PITOT TUBE	73.	0.0.000135	1.00	96.	70.	0.	0.00	1.00	1.	1	20
387	[illegible]	PILOT AIRSPEED	564.	0.0.000407	1.00	0.	100.	30.	0.00	0.00	2.	1	20
388	[illegible]	[illegible] RATE GYRO S	1262.	0.0.000001	1.00	0.	160.	90.	0.00	0.00	1.	1	20
389	[illegible]	ANTICOLLISION LI	159.	0.0.000046	0.00	0.	70.	0.	1.00	0.00	1.	1	20
390	[illegible]6200005951507	GENERATOR, TACHOM	57.	0.0.000406	1.00	111.	70.	0.	0.00	1.00	3.	1	80
391	[illegible]	[illegible]TTER FUEL PRE	361.	0.0.000181	0.00	0.	70.	0.	1.00	0.00	1.	1	80
392	[illegible]001025822[illegible]	IND TURB GAS TEM	828.	0.0.000814	1.00	0.	75.	5.	0.00	0.00	2.	1	80
393	[illegible]	INDICAT, TORQ GUN	[illegible]	0.0.000859	1.00	0.	100.	30.	0.00	0.00	1.	1	20
394	[illegible]	TRANSDUCER ENG	411.	0.0.003163	0.00	0.	70.	0.	1.00	0.00	1.	1	20
395	[illegible]	TRANSDUCER ENG	481.	0.0.007322	0.00	0.	70.	0.	1.00	0.00	2.	1	20
396	[illegible]001065374[illegible]	[illegible] TACH [illegible]	937.	0.0.001989	1.00	0.	125.	35.	0.00	0.25	2.	1	20
397	[illegible]001065374[illegible]	[illegible]METER FIL	1896.	0.0.000859	1.00	0.	75.	5.	0.00	0.00	1.	1	20
398	[illegible]01065374[illegible]	INDICATOR	1177.	0.0.003163	1.00	0.	100.	30.	0.00	0.00	2.	1	20
399	[illegible]0010741714	TRANSMITTER	383.	0.0.002983	0.00	0.	70.	0.	1.00	0.00	1.	1	20
400	[illegible]	TRANSDUCER, CONT	193.	0.0.000226	1.00	240.	70.	0.	0.00	1.00	4.	1	20

ITEMS RANK ORDERED IN NORMAL INPUT ORDER

PART	NSN	DESCRIPTION	COST	OST	FAIL RT	NRTS	BCY	DCY	DRT	BCON	DCON	QPA	ESS	INVEN
401	[illegible]004[illegible]14923	GUN MOTION XDUCR	97.	0.0	.000010	0.00	0.	70.	0.	1.00	0.00	1.	1	20
402	[illegible]8000[illegible]418106	GLASS,LIQUID SIG	3.	0.0	.000225	1.00	0.	70.	0.	0.00	1.00	1.	1	80
403	[illegible]80007552855	GLASS,LIQUID SIG	2.	0.0	.000853	1.00	90.	70.	0.	0.00	1.00	1.	1	100
404	[illegible]53001028842 0	INDICAT FUEL PIL	1236.	0.0	.000678	1.00	0.	100.	30.	0.00	0.00	1.	1	20
405	[illegible]685005609651	TRANSMITTER,TEMP	36.	0.0	.000497	1.00	90.	70.	0.	0.00	1.00	1.	1	60
406	[illegible]25010281092	INDIC ENG OIL PI	610.	0.0	.000271	1.00	0.	75.	5.	0.00	0.00	1.	1	80

TOTAL NR PARTS= 406 NR USED= 406

APPENDIX B

Baseline Case Scenario Data Base

APPENDIX B
BASELINE CASE SCENARIO DATA BASE

CASE IDENTIFICATION: [illegible] UPDATE

[illegible] TIME	CONFIDENCE GOAL	ESSENTIALITY CODE	COST LIMIT	# OF ITERATIONS	FLYING HOURS	SCENARIO LENGTH
[illegible]	.01	[illegible]	15000000.	4	12.0	120

NUMBER OF DAY INTERVALS SPECIFIED-DEPLOYMENT: 15

INITIAL DAY OF INTERVAL

1 9 14 16 33 35 44 48 49 51 54 72 77 83 90

CUMULATIVE NUMBER OF AIRCRAFT DEPLOYED

266 295 324 373 382 440 469 498 527 556 585 614 643 672 710

NUMBER OF DAY INTERVALS SPECIFIED-FLYING HOURS: 17

INITIAL DAY OF INTERVAL

1 11 12 14 33 36 39 44 49 52 54 57 61 75 86 88
91

DAILY FLYING HOURS

850 950 1050 1250 1200 1300 1400 1450 1550 1650 1700 1850 1850 2000 2100 2200
2150

NUMBER OF DAY INTERVALS LOSSES: 17

INITIAL DAY OF INTERVAL

1 11 12 14 31 36 39 44 49 52 54 57 61 75 86 88
91

DAILY AIRCRAFT LOSSES

4.0 4.0 4.0 5.0 3.0 4.0 4.0 4.0 4.0 5.0 5.0 5.0 2.0 2.0 2.0 2.0
1.0

NUMBER OF DAY INTERVALS MINIMUM REQUIRED AIRCRAFT AVAILABILITY: 1

INITIAL [illegible] INTERVAL

MINIMUM [illegible] AIRCRAFT [illegible] ABILITY

* [illegible] OF CUMULATIVE TOTAL: 5

THE [illegible] NUMBERS [illegible] PARTS

* [illegible] STATUS [illegible] ALL PARTS IS DESIRED:

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