

Exhibit P-40, BUDGET ITEM JUSTIFICATION							DATE: February 2004				
APPROPRIATION/BUDGET ACTIVITY Aircraft Procurement, Navy/APN-5 Aircraft Modifications							P-1 ITEM NOMENCLATURE Power Plant Changes				
Program Element for Code B Items:							Other Related Program Elements				
	Prior Years	ID Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total
QTY		A									
COST (In Millions)	290.9	A	15.6	21.4	24.4	20.2	18.1	19.0	18.6	10.5	438.7
<p>This line item funds modifications to all in-service aircraft engines. Power Plant Changes are required throughout the service life of each aircraft to correct flight deficiencies and improve operational readiness while reducing engine operating costs. This program finances the procurement and installation of retrofit kits for all Navy and Marine Corp aircraft engines and related propulsion hardware such as propellers, starters and transmission. The overall goal of the modifications budgeted in FY 2005 is to continue modification efforts previously initiated on the engines for the F-14, AV-8B, H-53, S-3, H-60, E/A6-B, A-6, H-2, AH-1W, T-38, F-5, F/A-18E/F, H-46, H-3, C-2, E-2, A-4, H-53, MH-60, C-130, F/A-18C/D, T-2, P-3, VH60, UH1N,T-45, F16 and V22 aircraft.</p> <p>The following depicts the current funding levels budgeted and programed for Power Plant Changes:</p>											
(TOA, \$ in Millions)											
<u>OSTIP No.</u>	<u>Description</u>	<u>Prior Years</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Complete</u>	<u>Total</u>
N/A	Power Plant Changes	290.9	15.6	21.4	24.4	20.2	18.1	19.0	18.6	10.5	438.7
Total		290.9	15.6	21.4	24.4	20.2	18.1	19.0	18.6	10.5	438.7
Note: Totals may not add due to rounding.											

Exhibit P-3a

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: Power Plant Changes (OSIP: N/A)

MODELS OF SYSTEM AFFECTED: All Active In-Service Navy and Marine Corps Aircraft

TYPE MODIFICATION: Approx. 80% Safety, 20% Reliability

DESCRIPTION/JUSTIFICATION:

This program corrects aircraft flight safety deficiencies, improves operational fleet readiness and reduces engine cost of ownership by incorporating approved power plant changes. Power plant changes are required throughout the aircraft service life as the engine ages and operationally revealed deficiencies are discovered, researched, and solutions engineered. The Component Improvement Program (CIP) which is funded in RDT&E,N develops and demonstrates engineering solutions to these deficiencies and through the Engineering Change Proposal (ECP) process, initiates power plant changes. The power plant change program procures the necessary power plant change retrofit kit, its installation, and technical data. This program provides retrofit kits for all Navy and Marine aircraft engines and propulsion related hardware such as propellers, starters, generators, and transmissions. Reliability Improvements are designed to increase Mean Time Between Failure and Mean Time Between Engine Removal by 30% on average and are expected to generate savings/cost avoidance in excess of \$50M annually.

F110 Engine Program F-14 B/D

ECP T130 - Master Chip Detector Relocation moves the MCD to an area which is easily accessible through the daily inspection doors. The redesigned MCD has an improved capture efficiency, and is less prone to leakage.

ECP T144 - LPT Stage 1 Shroud Life Improvement to provide a shroud configuration that will consistently achieve a 4000 TAC inspection interval. The assembly will eliminate ingestion of flow path air and add a disassembly feature to the shrouds.

ECP T139 - Fuel Boost Pump Durability Improvement introduces a new Fuel Boost Pump with an increased orifice diameter. This change will prevent the oil supply source from being lost due to contamination in the oil system.

EMSP Improvements

F402 Engine A/V-8B:

ECP 3709C2 - IGVC Redesigned Bushings

ECP 3763 FMU Mod - Safety modification package to the Fuel Metering Unit which will supply a high-pressure fuel supply to the hydro-mechanical backup unit.

ECP 3784 Engine Wiring Harness- Encapsulation of main engine harness to prevent foreign material penetration (sand, dust, moisture) into the harness and resultant loss of signal quality

ECP 3782 ARMCO Liner/LPC Rear Lip- Fan case liner moves forward and requires a more robust attachment scheme. The LPC fan case rear lip cracks and can fall into the gas path. The redesign fixes the design deficiency.

ECP 3683 ECS &EMS P3 Pipe- Provides revisions to the environmental control system and engine monitoring system P3 signal pipe and associated clippings to accommodate earlier redesign of the P3 transducer mount.

ECP 3722 Bleed Pipe Extension- Increases sleeve length between stage 3 bleed pipe and heat exchanger to accommodate installation difficulties.

ECP 3729 Revised Attachment JPT- Provides revisions to JPT harness with revised attachment nuts to alleviate clearance problems.

ECP 3733 Curvic Coupling Corrosion - Introduces corrosion protection to the curvic coupling to eliminate corrosion attack and resultant reduction in component life.

ECP 3739 NGV Locating Ring - Introduces an improved outer high pressure stage 1 turbine nozzle guide vane locating ring to alleviate assembly problems.

ECP 3744 #2 BRG Seal Housing - Introduces an elongated bore shape to the #2 bearing to correct a design deficiency.

ECP 3748 #1 BRG Nut Channel - Revised material and plating the number 1 bearing to alleviate design deficiency.

ECP 3771 HP Rotor Nut Revision - Revised high pressure rotor center front nut and cupwasher to improve structural weakness.

ECP 3787 DECU Hybrid Circuits - Revised T1 thermocouple hybrid circuits to the DECU for improved data accuracy.

ECP 3794 FMU Shielded Bearings- Revised fuel metering unit shielded bearings to the stepper motor assembly to alleviate design deficiency.

ECP 3797 FMU Bonded Shells- Revised bonded electrical connector shells to the fuel metering unit to improve durability.

ECP 3798 PLAU Bonded Shells - Revised bonded electrical connector shells to the power lever angle unit to improve durability.

ECP 3800 P3 Transducer New Mount - New vibration isolation mount for the P3 transducer to prevent premature failures of the transducer.

ECP 3806 Hot Nozzle Cracking - Redesign of the hot nozzles to minimize or prevent the current problem of cracking and part attrition

EVICS

ECP TBD Revised Water Injection Pipe Runs

ECP TBD MOD Bottom Heat Shield

ECP TBD FMU HP Pump PRV

ECP TBD LPC Stage 1 Damping Foil

ECP TBD Mod to Accept EVICS

F404 Engine F/A 18

ECP E78 Main Fuel Control Selector Valve

ECP A27 VEN Position Transmitter Improvement

ECP C67 MFC Manifold Redesign

ECP E70 T1 Caution Capacitor Improvement

ECP E91 Improved MFC Ratio Boost Pston

ECP F15 Front Frame Transducer Bracket

ECP TBD MFM Kits

ECP TBD Mod Turbine Kits

J52Engine EA 6/B, A-6, A-4:

ECP 95XA013 Redesigned Pressure Ratio and Compressor Slator Controls reduce the susceptibility that can cause friction between the shank and the reset diaphragm.

ECP CP93XA069 Thermal Barrier Coated (TBC) 1st Stage Turbine Slator Vane Assembly will increase the durability of the vanes. This change is also required for a 1500 hr engine build.

ECP TBD 4 1/2 Bearing Redesign

Exhibit P-3a	INDIVIDUAL MODIFICATION
MODIFICATION TITLE: <u>Power Plant Changes (OSIP: N/A)</u>	
MODELS OF SYSTEM AFFECTED: <u>All Active In-Service Navy and Marine Corps Aircraft</u>	TYPE MODIFICATION: <u>Approx. 80% Safety, 20% Reliability</u>
<p><u>T58 Engine H-3, H-46</u> ECP TBD Stage 3 Nozzle Antirotation ECP TBD Overspeed Switch ECP TBD High Temp O-rings ECP TBD Flow Divider Imp ECP 58C-24 Small Features Imp ECP TBD Stage 1 Nozzle Imp ECP TBD #1 Tabbed/Anti-Rot Bearings ECP TBD #2 Engine Seal Puller ECP 58K-23 AGB Chip Detector</p> <p><u>TF34 Engine S-3:</u> ECP TF34-JAX-001 Reconcile discrepancies contained in ECP 23EG5504, Variable Geometry System Improvements, ECP 23EG5512 Compressor Arm Retention, and ECP 23EG5529 for Improved Compressor Abradable Coating and combine in the correct sequence the improvements into one ECP. The combined approach will streamline incorporation and reduce total maintenance actions including replacement of separate right and left VG linkages with a single improved linkage; installation of VG linkage retaining hardware; and incorporation of an improved stator coating. Incorporation of these modifications will improve readiness.</p> <p><u>T64 Engine H-53:</u> ECP 64E-55 Improved Single Ring Carbon Seals at the Nos 2,3, and 4 bearing positions with more durable single-ring seals. ECP T64 Improved Main Fuel Control ECP TBD Combustion Liner Anti Rotation ECP TBD TiN Coating ECP TBD PT Over Speed Switch ECP TBD T-62T-27 Thermocouple Relay ECP TBD Comp Rear Spool Oil Drain Holes ECP TBD High Temperature Wolf Gasket ECP TBD Lube Filter Bypass Valve Seat ECP T-62T-27 Elbow ECP TBD Reliability Centered Maintenance ECP TBD Anti-Leak Check Valve</p> <p><u>T700 Engine H-2, H-60, AH-1</u> ECP 136R2 Nr 2 Bearing Housing and Damper Improvement provides an Output Drive Assembly (ODA) with improved housing, damper and spline lubrication for the No two bearing housing. ECP 122 Stage 3 Rotor Ring adds a stage three containment ring to the power turbine module on all T700-GE-401C and T700-GE-701C engines to compensate for the increase in temperature when these engines operate in aircraft equipped with infrared suppressors. ECP 123 Stage 1 Blade Tip Corrosion Resistance will incorporate an improved tip material to preclude deterioration. ECP 125 HydroMechanical Unit (HMU) Improvements prevent internal contamination in the Woodward Governor HMU ECP 126 HMU O Ring - Replaces the Noton O-Ring in the Hamilton Standard HMU with a Fluorocarbon based O-Ring to prevent fuel leakages. ECP T700 Turbine Blade Redesign ECP PPC 16 Rev A Blade Damper ECP TBD UNS-401C DECU Update</p> <p><u>T400 Engine AH1W, UH1N</u> ECP TBD Bearing Pressure Oil Tube Assy ECP TBD Improved Air Inlet Screen ECP TBD Non Asbestos T5 Jumper Leads ECP TBD Sprag Clutch Assy ECP TBD Improved P3 Filter Bowl Housing ECP TBD Improved No. 5 & 8 Cup Washers ECP TBD Improved No. 10 Bearing</p>	

MODIFICATION TITLE: Power Plant Changes (OSIP: N/A)MODELS OF SYSTEM AFFECTED: All Active In-Service Navy and Marine Corps AircraftTYPE MODIFICATION: Approx. 80% Safety, 20% ReliabilityT56 Engine P-3, C-2, E-2, C-130

ECP 2132 Dummy Plug Redesign (SIII)
 ECP 2132 Dummy Plug Redesign (IV)
 ECP T-56-A-427-002 S/V Turbine Blade Rework
 ECP T56-A-427-003 Polished Swirl Plate
 ECP 56-A-427-001 Fuel Nozzle Purge
 ECP TBD Governors
 ECP TBD SIV Dummy Plug Redesign
 ECP TBD Dome Shell Seal kit
 ECP 2122B EMS/EAU Software
 ECP 2131 DETC Omnibus Change
 ECP 2121 Diaphragm for RGB
 ECP 2102 Rear Engine Mount
 ECP 2115 TD Amp Harness
 ECP/AEM 104491 14 Stage Wheel
 ECP 2013R1 Custom 450 Comp Vane
 ECP 2127-3 Micron Scavenge Oil Filter
 ECP 2124 MFC Omnibus Change

F414 Engine F/A18-E/F

ECP TBD Combustor Flameout
 ECP TBD HPC Durability and Performance
 ECP TBD MFM Kits
 ECP TBD MFC Bracket Rework
 ECP TBD Transfer Lever Arm
 ECP TBD HPT Nozzle Retaining Ring
 ECP TBD A-sump Tube Bracket
 ECP A-02 A/B Case Aft Ring Hardcoat
 ECP C-06 Rework Balnace Piston Vent
 ECP TBD VEN Start Line Cracking

F405 Engine T-45

ECP TS-234 Rising Idle Modification
 ECP TBD Compressor Improved Coating
 ECP TBD LP Stator Coating
 ECP TBD Surge Modification Kits
 ECP TBD Omega Seals
 ECP TBD Electrical Harness
 ECP TBD Module 02 Coating
 ECP TBD HVC Vane Coating
 ECP TBD Modules 3, 10, 11 Coatings
 ECP TBD COSSI Drum

J85 Engine F-5, T-2, T-38

ECP 85S-99 Carbide VEN Leafs
 ECP 85N-55 Improved Ignition
 ECP TBD Turbine Improvements
 ECP TBD Fuel Control Improvement
 ECP TBD Improved Ignitor System Components
 ECP 85E-106 High Temperature Clamps

F100 Engine F-16

ECP TBD Compressor Safety Changes
 ECP TBD Turbine Safety Changes

T405 Engine V22

ECP TBD Gear Box Modification
 ECP TBD Turbine System Modification

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

All engineering efforts will be accomplished prior to procurement of kits.

Exhibit P-3a

FINANCIAL PLAN (TOA, \$ in Millions):

CLASSIFICATION:

	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E		241.230		28.385		48.473		52.436													
PROCUREMENT																					
Installation Kits																					
F110 Engine (F-14 B/D)																					
ECP T086 - Vented IDG Ejector Valve	337	0.474																			
ECP T130 - Master Chip Detector Relocation	150	0.952	60	0.393	60	0.404															
ECP T144 - LPT Slg 1 Shroud Improvement	180	0.736	60	0.256	30	0.131															
ECP T139 - Fuel Boost Pump Mod	180	0.373	60	0.132	30	0.070															
ECP T151 - Fuel Nozzle Moeller Fittings	210	0.483	60	0.147																	
EMSIP IMPROVEMENTS	150	0.382			79	0.210															
PYROMETER IMPROVEMENTS	150	0.381	60	0.163																	
ECP-T158- FRONT FRAME DMPER MIGRA R	240	0.346	30	0.048																	
T 2.5 SENSOR BRAZEJOINT IMPROVEMENT	420	0.084	60	0.012																	
CMC FLAMEHOLDER	240	0.986	30	0.126																	
T155 MEC IMPROVEMENT	123	0.123	30	0.030																	
F402 Engine (AV-8B)																					
EVICS					2	0.245	2	0.240													
ECP TBD Revised Water Injection Pipe Runs					3	0.024															
ECP TBD MOD Mod Bottom Heat Shield					4	0.024															
ECP TBD FMU HP Pump PRV					7	0.130	7	0.130													
ECP TBD LPC Stage 1 Damping Foil					10	0.260	10	0.260													
ECP TBD Mod to Accept EVICS					8	1.049	13	1.756													
ECP 3606 - INCO 718 BOLT	51	0.017	40	0.015																	
ECP 3709C2 - IGVC Redesigned Bushings	133	0.377	54	0.014	25	0.078															
ECP 3763 FMU Mod	58	0.669	17	0.273	13	0.300															
ECP 3784 Encapsulated Wiring harness	277	1.586	18	0.155	18	0.205	18	0.205													
ECP 3782 ARMCO Liner/LPC Rear Lip	64	0.007	50	0.015	50	0.005															
ECP 3683 FCS & EMS P3 Pipe	39	0.025	50	0.017	50	0.040															
ECP 3722 Bleed Pipe Extension	39	0.016	50	0.025	50	0.025															
ECP 3729 Revised Attachment JPT	39	0.033	50	0.050	50	0.050															
ECP 3733 Curvic Coupling Corrosion	41	0.136	50	0.150	25	0.100															
ECP 3739 NGV Locating Ring	43	0.142	50	0.155	25	0.100															
ECP 3744 #2 BRG Seal Housing	47	0.042	50	0.050	50	0.050															
ECP 3748 #1 BRG Nut Changes	47	0.042	50	0.050	50	0.050															
ECP 3771 HP Rotor Nut Revision	39	0.016	50	0.020	50	0.025															
ECP 3787 DECU Hybrid Circuits	39	0.162	50	0.225	25	0.125	25	0.125													
ECP 3794 FMU Shielded Bearings	39	0.097	50	0.134	50	0.150															
ECP 3797 FMU Bonded Shells	39	0.033	50	0.075	50	0.050															
ECP 3798 PLAU Bonded Shells	75	0.173	38	0.045	38	0.050															
ECP 3800 Transducer	39	0.162	50	0.230	50	0.250															
ECP 3806 Hot Nozzle Cracking	42	0.180	72	0.511	25	0.450	25	0.456													
ECP TBD SRD Comb/fuel nozzle																					
ECP TBD SRD Fuel Control kits																					

Exhibit P-3a

FINANCIAL PLAN (TOA, \$ in Millions):

CLASSIFICATION:

	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
F404 Engine (F/A-18 C/D)																				
ECP E78 - Main Fuel Control Selector Valve	2,465	0.885			142	0.093														
ECP A27 - VEN Position Transmitter Improvement	1,500	1.147			32	0.025	32	0.025												
ECP C67 - MFC Manifold Redesign	1,164	1.687					36	0.056	36	0.056										
ECP E70 - T1 Caution Capacitor Improvement	1,655	2.548			11	0.200	32	0.353												
ECP E91 - Improved MFC Ratio Boost Pstn	700	1.054			69	0.080	69	0.080												
ECP F15 - Front Frame Transducer Bracket	1,100	0.551			25	0.011	25	0.011												
ECP TBD MFM kits					11	0.175	11	0.175												
ECP TBD Mod Turbine kits							7	0.425												
ECP TBD Mech. System Mod kits																				
J52 Engine (E/A-6B, A-6, A-4)																				
ECP 95XA013 - Redesigned Pressure Ratio & Compressor Stator Controls	152	0.350	38	0.106	38	0.110	38	0.124												
ECP CP93XA069 Thermal Barrier Coated 1st Stage Turbine Stator Vanes	37	1.189	37	1.393	17	0.750	35	1.550												
ECP 95XA275C1 J52 Engine Retrofit	14	1.507																		
ECP TBD 4 1/2 Bearing Redesign					270	0.300	90	1.000												
ECP TBD Main FC Mod kits																				
ECP TBD Turbine Mod kits																				
T58 Engine (H-3, H-46)																				
ECP TBD Stage 3 Nozzle Antirotation					16	0.167														
ECP TBD Overspeed Switch					100	0.150	121	0.182												
ECP TBD High Temp O-rings					300	0.127														
ECP TBD Flow Divider Imp					16	0.075														
ECP 58C-24 Small Features Imp					16	0.018														
ECP TBD Stage 1 Nozzle Imp					16	0.019														
ECP TBD #1 Tabbed/Anti-Rot Bearings					108	0.216	108	0.216												
ECP TBD #2 Engine Seal Puller					1	0.030														
ECP TBD Mech Systems Mod kits																				
ECP 58K-23 AGB Chip Detector							25	0.376												
TF34 Engine (S-3)																				
ECP TF34 - JAX 001 - ENGINE COMPRESSOR STATOR CASE	258	0.263	64	0.136	24	0.051														
T64 Engine (H-53)																				
ECP 64E-55 - Impr. Single Ring Carbon Seals	480	0.951	60	0.141	44	0.106														
ECP T64 Improved Main Fuel Control					93	0.280														
ECP TBD Combustion Liner Anti Rotation					30	0.195														
ECP TBD TIN Coating					24	0.024														
ECP TBD PT Over Speed Switch					50	0.075														
ECP TBD T-62T-27 Thermocouple Relay					35	0.050														
ECP TBD Comp Rear Spool Oil Drain Holes					35	0.018														
ECP TBD High Temperature Wolf Gasket					100	0.024														
ECP TBD Lube Filter Bypass Valve Seat					100	0.010														
ECP T-62T-27 Elbow					100	0.050														

Exhibit P-3a

FINANCIAL PLAN (TOA, \$ in Millions):

CLASSIFICATION:

	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
ECP TBD Reliability Centered Maintenance					14	0.125	14	0.125													
ECP TBD Anti-Leak Check Valve					100	0.024															
T700 Engine (H-2, H-60, AH-1)																					
ECP 700102C1 Stage 1 & 2 Turbine Dampers	26	0.973																			
ECP 136R2 - Nr 2 Bearing Housing & Damper Improvement	80	0.647	138	1.152	88	0.700	200	1.740													
ECP 122 - Stage 3 Rotor Ring	673	1.388	209	0.460	209	0.928	207	0.476													
ECP 123 - Stage 1 Blade Tip Corrosion Resistance	226	3.432	133	1.930	37	0.928															
ECP 124 - Exhaust Frame Drain Hole	600	0.600	200	0.220																	
ECP 125 - HydroMechanical Unit (HMU) Improvements	199	0.820	104	0.447	64	0.297	108	0.497													
ECP 126 - HMU O-Ring	238	0.967	153	0.627	88	0.400	176	0.792													
ECP T700 Turbine Blade Redesign					28	0.200	443	2.650													
ECP T700 TBD VARIOUS																					
ECP PPC 16 Rev A Blade Damper					150	0.870															
ECP TBD Compressor System Mod kits																					
ECP TBD Combustor Mod kits																					
ECP TBD UNS -401C DECU Update					50	0.078															
T400 Engine (AH1W, UH1N)																					
ECP TBD Bearing Pressure Oil Tube Assy					10	0.007															
ECP TBD Improved Air Inlet Screen					15	0.006															
ECP TBD Non Asbestos T5 Jumper Leads					80	0.008															
ECP TBD Sprag Clutch Assy					250	0.010															
ECP TBD Improved P3 Filter Bowl Housing					30	0.180	30	0.184													
ECP TBD Improved No. 5 & 8 Cup Washers					60	0.010															
ECP TBD Improved No. 10 Bearing					30	0.010															
T56 Engine (P-3, C-2, E-2, C-130)																					
ECP 2112R1 - 15 Micron Oil Filter	4,004	3.329																			
ECP 2132 Dummy Plug Redesign (SIII)					25	0.168															
ECP 2132 Dummy Plug Redesign (IV)					25	0.181															
ECP T-56-A-427-002 S/V Turbine Blade Rework					10	0.055															
ECP T56-A-427-003 Polished Swirl Plate					30	0.490	10	0.150													
ECP 56-A-427-001 Fuel Nozzle Purge					26	0.060															
ECP TBD Governors					60	0.400															
ECP TBD SIV Dummy Plug Redesign					19	0.130															
ECP TBD Dome Shell Seal kit					40	0.250	40	0.250													
ECP 2122B EMS/EAU Software					60	0.090															
ECP 2131 DETC Omnibus Change					40	0.150															
ECP 2121 Diaphragm for RGB					70	0.035															
ECP 2102 Rear Engine Mount					50	0.015															
ECP 2115 TD Amp Harness					100	0.056															
ECP/AEM 104491 14 Stage Wheel					3	0.018															
ECP 2013R1 Custom 450 Comp Vane					4	0.036															

Exhibit P-3a

FINANCIAL PLAN (TOA, \$ in Millions):

CLASSIFICATION:

	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
ECP 2127-3 Micron Scavenge Oil Filter					60	0.019															
ECP TBD Assy Mod kits																					
ECP TBD Wiring Mod kits																					
ECP 2124 MFC Omnibus Change					40	0.344	40	0.300													
F414 Engine (F/A-18E/F)																					
ECP TBD Combustor Flameout			150	0.015	150	0.015	100	0.500													
ECP TBD HPC Durability and Performance			85	0.045	60	0.032	100	0.667													
ECP TBD MFM Kits					50	0.350	100	0.990													
ECP TBD MFC Bracket Rework					50	0.150	75	0.225													
ECP TBD Transfer Lever Arm					75	0.371	50	0.250													
ECP TBD HPT Nozzle Retaining Ring					150	0.156	200	0.315													
ECP TBD A-ump Tube Bracket					100	0.035	62	0.137													
ECP A-02 A/B Case Alt Ring Hardcoat					10	0.034	75	0.756													
ECP C-06 Rework Balnace Piston Vent					15	0.033															
ECP TBD VEN Start Line Cracking			55	0.011	55	0.011	110	0.035													
ECP TBD Control System Mod kits							75	0.647													
ECP TBD IGV Mod kits							62	0.468													
ECP TBD Gas Path Mod kits							80	0.758													
ECP TBD A/B Mod kits																					
ECP TBD Mech System/wiring mod kits																					
F405 Engine (T-45)																					
ECP TS-234 Rising Idle Modification	166	0.082			166	0.081															
ECP TBD Compressor Improved Coating			55	0.165	33	0.100	28	0.080													
ECP TBD LP Stator Coating			45	0.250	35	0.194															
ECP TBD Fuel Control Unit Life Enhancement			60	0.120																	
ECP TBD Surge Modification Kits					83	0.150	83	0.150													
ECP TBD Omega Seals					83	0.075	83	0.075													
ECP TBD Electrical Harness					83	0.075	83	0.075													
ECP TBD Module 02 Coating					83	0.750	83	0.075													
ECP TBD HVC Vane Coating					83	0.050	83	0.050													
ECP TBD Modules 3, 10, 11 Coatings					83	0.050	83	0.050													
ECP TBD HPT Blades																					
ECP TBD LPT Blades																					
ECP TBD HPNGV																					
ECP TBD LPNGV																					
ECP TBD COSSI Drum					50	0.090															
J85 Engine (F-5, T-2, T-38)																					
ECP 85S-99 Carbide VEN Leafs*			30	0.348	8	0.100	42	0.434													
ECP 85N-55 Improved Ignition*			60	0.160	36	0.088	36	0.088													
ECP TBD Turbine Improvements					36	0.200	36	0.100													
ECP TBD Fuel Control Improvement					36	0.090	36	0.090													
ECP TBD Improved Ignitor System Components					36	0.061															

Exhibit P-3a

FINANCIAL PLAN (TOA, \$ in Millions):

CLASSIFICATION:

	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
ECP 85E-106 High Temperature Clamps*			107	0.008	36	0.055															
F100 Engine (F-16)																					
ECP TBD Compressor Safety Changes																					
ECP TBD Turbine Safety Changes																					
T405 Engine (V22)																					
ECP TBD Gear Box Modification																					
ECP TBD Turbine System Modification																					
COMPLETED ECPS FROM PRIOR YRS	32,169	193.063																			

Exhibit P-3a

FINANCIAL PLAN (TOA, \$ in Millions):

CLASSIFICATION:

	Prior Years		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
Installation Kits N/R																					
Installation Equipment																					
Installation Equipment N/R																					
Engineering Change Orders																					
Data		0.221		0.050		0.050		0.050													
Non Recurring Equipment		0.164																			
Support Equipment		0.106						0													
ILS		3.541		0.495		0.382		0.505													
Other Support		30.602		2.687		0.898		1.195													
Interim Contractor Support																					
Installation Cost		29.614		1.166		1.265		0.435													
TOTAL PROCUREMENT	51,476	290,916	3,122	15,648	6,436	21,404	3,762	24,409													

Exhibit P-3a

MODELS OF SYSTEMS AFFECTED: All Active In-Service Navy and Marine Corps Aircraft MODIFICATION TITLE: Power Plant Changes (OSIP: N/A)

INSTALLATION INFORMATION: The tables below list the quantities, installation schedules, and costs for those ECPs for which there is an installation cost. Of those ECPs with installation costs, three are not shown as they are labor-only modifications and require no kit. The reason they are not shown in these tables is that the procurement quantity and installation quantities would not be equal.

METHOD OF IMPLEMENTATION: Current with engine/module repair (where installation cost is zero), or by forced retrofit (shown below).

ADMINISTRATIVE LEADTIME: Average 6 Months PRODUCTION LEADTIME: Average of 12 months

CONTRACT DATES: FY 2003: Varies FY 2004: Varies FY 2005: Varies

DELIVERY DATE: FY 2003: Varies FY 2004: Varies FY 2005: Varies

(\$ in Millions)

Cost:	Prior Year		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete	TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
FY 2002 Kits and Prior ()	5,727	8,219	59	64														
FY 2003 () kits			469	471	59	64												
FY 2004() kits					516	58	523	504										
FY 2005() kits							400	410										
FY 2006() kits																		
FY 2007 () kits																		
FY 2008 () kits																		
FY 2009 () kits																		
To Complete () kits																		
TOTAL	5,727	8,219	528	535	575	122	923	914										

Installation Schedule

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
In	5727	130	133	133	132	142	145	144	144	230	231	231	231									
Out	5727	130	133	133	132	142	145	144	144	231	231	231	231									

	FY 2008				FY 2009				To Complete	TOTAL
	1	2	3	4	1	2	3	4		
In										
Out										