BUDGET ITEM JUSTIFICATION SHEET		DATE FEBRUARY 1999
APPROPRIATION / BUDGET ACTIVITY PROCUREMENT, DEFENSE - WIDE / 2	P-1 ITEM NOMENCLATURE ROTARY WING UPGRADES AN	D SUSTAINMENT
FY2000 PROGRAM JUSTIFICATION: Funds airframe and aircraft Conformal Fuel tanks, Forward Looking Infra-red (FLIR) A-kits and FY 2001 PROGRAM JUSTIFICATION: Continues to fund airfram Conformal Tanks and FLIR A-kits. Funds installation of a weapons	I SOF unique spares. e and system upgrades. Finishes	

	BUDGET ITEM JUSTIFICA	ATION SHEET				DATE	FEBRU	J ARY 1 99	9	
	APPROPRIATION / BUDGET ACTIVITY PROCUREMENT, DEFENSE - WIDE / 2			MENCLA NG UPGR		ND SUSTA	AINMEN	[
	N	MODIFICATION S	SUMMA	λRΥ .						
	DESCRIPTION	Prior Years	<u>FY98</u>	FY99	<u>FY00</u>	<u>FY01</u>	<u>FY02</u>	FY03	<u>FY04</u>	FY05
1.	NBC Cockpit Protection	.000						.789	2.632	
2.	Onboard Inert Gas Generation System	.000			5.245					
3.	MH-53J IDAS/MATT	24.360	16.280	13.758	.894					
4.	Aircraft Survivability Equipment Countermeasures	.000	1.479	.839			•			
5.	MH-47 Exhaust Suppressor (MH-47D/E)	.000	1.206	4.058						
6.	Aircraft Systems Mod	.000	1.351	1.530						
7.	MH-47 Cargo Handling System (MH-47D/E)	.000		1.843						
8.	MH-60 Integrated Fuel Panel (MH-60K/L)	.000		3.119						
9.	MH-47 Rescue Hoist (MH-47D)	.000		.203						
10.	Cockpit Management System 80 Upgrade (MH-47D/60L)	.000	1.045	.679						
11.	Embedded GPS and Inertial Nav Sys (MH-47D/E-60K/L)	.000	1.455							
12.	Mission Enhanced Little Bird (A/MH-6)	.000	2.113	2.421	1.156	1.208				
13.	A/MH-6 Militarization	.000		2.634						
14.	A/MH-6 Component Miniaturization	.000	.790	.770		2.123				

P-1 SHOPPING LIST, ITEM NO. 3

UNCLASSIFIED

Page 4 of 6
EXHIBIT P-40 Budget Item Justification Sheet

	BUDGET ITEM JUSTIFICA	TION SHEET				DATE	FEBRU	JARY 199	9	
	APPROPRIATION / BUDGET ACTIVITY PROCUREMENT, DEFENSE - WIDE / 2	· ·		MENCLA NG UPGR		ND SUSTA	AINMENT			
	DESCRIPTION	Prior Years	<u>FY98</u>	FY99	<u>FY00</u>	FY01	FY02	<u>FY03</u>	<u>FY04</u>	<u>FY05</u>
15.	Integrated Infrared Countermeasures	.000			2.965	3.106	1.936	1.198	.436	
16.	Aircraft Survivability Equipment Engineering Fixes	.000	5.907	3.992	2.619					
17.	Infrared Exhaust Suppression (MH-47D/E)	.000			4.331	3.926	.532			
18.	Ballistic Protection System	.000				1.065	1.038			
19.	Infrared Exhaust Suppression (MH-60)	.000								6.465
20.	Army Rotary Wing Engineering Changes	.000			1.471	1.579	1.630	1.660	1.697	1.740
21.	Mission Processor Upgrade	.000					3.235	6.421	9.546	4.263
22.	Modular Avionics	.000						1.848	5.153	5.385
23.	Multi-Function Display Processor Upgrade	.000						1.622	4.035	3.469
24.	GPS/INS	.000					.920			
25.	Second Generation FLIR	.000								5.111
26.	Multi Mode Radar Upgrade	.000			2.561	3.342	3.527	2.112		
27.	Radar Altimeter Enhancement	.000							.789	2.487
28.	OH-6 50 Cal Replacement	.000						1.611	1.478	
29.	Forward Looking Infrared Radar A-Kits	.000			.551	.527				

P-1 SHOPPING LIST, ITEM NO.

36

UNCLASSIFIED

Page 5 of 6
EXHIBIT P-40 Budget Item Justification Sheet

	BUDGET ITEM JUSTIF	FICATION SHEET				DATE	FEBRU	J ARY 199	9	
	APPROPRIATION / BUDGET ACTIVITY PROCUREMENT, DEFENSE - WIDE / 2	i	ITEM NO TARY WI			ND SUST	AINMEN	1		
	DESCRIPTION	Prior Years	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05
30.	External Conformal Tanks	.000.	1.120	1.122	.787	1.376	1.491	1.1.00	<u> </u>	1
31.	MH-47 Cargo Handling System Upgrade	.000.			2.581	1.255	1.276	1.305	1.357	1.461
32.	MH-47 Forward Cabin Seats	.000.			.877	.877				
33.	MH-47 IR Strobe Light	.000				.822	•			
34.	MH-47 Rescue Hoist (MH-47D)	.000.			.497					
35.	MH-47 SLEP	.000.							2.436	2.273
36.	MH-60 200-Gallon Fuel Tank	.000.			1.009	1.008				
37.	MH-60 Altitude Hold	.000.				1.627	2.674	2.172		
38.	MH-60 Aerial Refuel Probes	.000				.986	1.349	.353		
39.	MH-60 SLEP	.000							.555	1.705
40.	MH-53J Service Life Extension Program	27.790								
	*Total does not include Upgrade/Sustain	ment cost.								
	* SUBTOTAL FOR MODS	52.150	31.626	35.846	27.544	24.827	19.608	21.091	30.114	34.359

P-1 SHOPPING LIST, ITEM NO. 36

UNCLASSIFIED

Page 6 of 6

EXHIBIT P-40 Budget Item Justification Sheet

COST ANALYSIS			Activity Title/			n Nomenclatu					
EXHIBIT (P-5) - Aviation	Procurement	t, Defense-Wi	de/Proc. Just./2	2	ROTARY V	VING UPGRA	ADES/SUSTA	INMENT	C. DATE: F	EBRUARY 1	999
Work Breakdown Structure		FY	1997	FY	1998		1999	FY	2000	FY	2001
Cost Elements (\$ thousands)		Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
1. MH-47/MH-60 MODIFICATIONS/											
SUSTAINMENT											
A. Aircraft Survivability Equip (ASE) Countermea	usres				1,479		839				
B. ASE Engineering Fixes					5,907		3,992		2,619		
C. Cargo Handling System							1,843		2,581		1,255
D. Exhaust Suppressor					1,206		4,058				
E. Rescue Hoist							203		497		
F. Cockit Management System					1,045		679				
G. Embedded Global Posn System					1,455						
H. Integrated Fuel Panel							3,119				
I. Ballistic Protection System					1,351		1,530				1,065
J. Army ECP Incorporation			4,953						1,471		1,579
K. Night Vision Devices					946	I	1,747		1,567		2,608
L. Integrated Infrared Countermeasures									2,965		3,106
M. Infrared Exhaust Suppression (MH-47D/E)			ĺ						4,331		3,926
N. Onboard Inert Gas Generation System								, , , , , , , , , , , , , , , , , , , ,	5,245		
O. Multi-Mode Radar Upgrade									2,561		3,342
P. MH-47 Forward Cabin Seats									877		877
Q. MH-47 Infrared Strobe Light											822
R. MH-47 Spares						I			840		1,680
S. Pacific Command Detachment											15,320
T. MH-60 200 Gallon Fuel Tanks									1,009		1,008
U. MH-60 Altitude Hold											1,627
V. MH-60 Aerial Refuel Probes								-			986
W. MH-60 Spares									526		945
Subtotal			4,953		13,389		18,010		27,089		40,146
2. MH-53J UPGRADES											
A. IDAS/MATT			627		16,280		13,758		894		
B. MH-53J Sustainment			231		1,014		6,143		7,598		4,919
Subtotal			858		17,294		19,901		8,492		4,919
		1	1			····					
3. A/MH-6 UPGRADES/SUSTAINMENT									1		
A. Mission Enhanced Little Bird		1			2,113		2,421		1,156		1,208
B. A/MH-6 Militarization							2,634				
C. Component Miniaturization		1			790		770				2,123
D. A/MH-6 Upgrades/Sustainment					2,680	<u> </u>	2,785		3,158		3,224
эт такий организации		† T			,						

COST ANALYSIS			Activity Title/			n Nomenclatu		****	a n.m. n		000
EXHIBIT (P-5) - Aviation	Procurement		de/Proc. Just./2	2			ADES/SUSTA	INMENT	C. DATE: F	EBRUARY	999
Work Breakdown Structure		FY	1997	FY	1998	FY	1999	FY		FY	
Cost Elements (\$ thousands)		Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
3. A/MH-6 UPGRADES/SUSTAINMENT (Cont)			L								
E. Forward Looking Infrared Radar A-kits									551		527
F. External Conformal Tanks									787		1,376
Subtotal					5,583		8,610		5,652		8,458
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LINE ITEM TOTAL		 	5,811	 	36,266		46,521	 	41,233		53,52

P-1 SHOPPING LIST, ITEM NO. 36

Page 2 of 2 Page EXHIBIT P-5, Cost Analysis

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: ONBOARD INERT GAS GENERATION SYSTEM

MODELS OF SYSTEMS AFFECTED: 47E, 60K Total of 48 systems and 7 spares.

DESCRIPTION/JUSTIFICATION: Produces a continuous flow of nitrogen-enriched gas into the aircraft fuel cell. Replaces the combustible air/fuel mixture in the tank ullage thereby protecting the aircraft and crew members against fuel tank explosions and fires.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MS III; Sep 98

FINANCIAL PLAN: (\$ in millions)	PΥ	' o	FY	0.6	FY9	00	FY	700	FY	11	FY	าว	FY	าว	FY	74	FY	ns	TO	~	TOT	'A I
	Qıy	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qıy	\$	Qty	\$
RDT&E						1.5															0	1.5
PROCUREMENT								5.3													0	5.3
Installation Kits								1.2					•			-					0	1.2
Install Kits Nonrecurring																					0	0.0
Equipment							55	2.5													55	2.5
Equipment Nonrecurring							·														0	0.0
Engineering Change Orders								····												-	0	0.0
Data																					0	0.0
																					0	0.0
																					0	0.0
																					0	0.0
																					0	0.0
Installation of Hardware																						
PY																					0	0.0
FY98																					0	0.0
FY99							40	1.													0	0.0
FY00							48	1.6													48	1.6
FY01																					0	0.0
FY02 FY03																	-				0	0.0
FY04						-															0	0.0
FY05																						
To Complete							-														0	0.0
Total Installation Cost	0	0.0	0	0.0	0	0.0	48	1.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		1.6
Total Procurement	U	0.0	U	0.0	Ū	0.0		5.3	U	0.0	Ü	0.0	U	0.0	Ü	0.0		0.0	Ü	0.0		5.3
		0.0		0.0					EADTI		MONITI				DDODE				2 MON			J
METHOD OF IMPLEMENTATION: GOCO					•	ADMI	NIS I KA	YII VE I	LEADTI	ME: 3	MONT	<u>10</u>			PRODU	CHO	NLEAL) I IIVIE;	Z MON	1110		
CONTRACT DATE:	Current	Year : N	<u> </u>				Budget	Year 1	: <u>10/99</u>]	Budget	Year 2:	<u>N/A</u>							

Page 1 of 2 Pages EXHIBIT P3A

Exhibit P-3a, Individual Modification (Cont)

MODIFICATION TITLE: ONBOARD INERT GAS GENERATION SYSTEM

INSTALLATION SCHEDULE

	PYs		19	98			1999				20	000			20	001			20	002	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In										12	12	12	12								
Out										12	12	12	12								

		20	03			2004				20	05		To Complete	Total
	1	2	3	4	1	2	3	4	1	2	3	4		
In														48
Out														48

	BUDGET I	TEM JUSTIFI	CATION SHE	ET			DATE FEI	BRUARY 1999	
APPROPRIATION / BUDGE PROCUREMENT, DEFENSE		/8-2 *		1	M NOMENCLA		•		
	Prior Years	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05
QUANTITY									
COST (In Millions \$)	25.101	5.102	6.053	2.107	2.379	.113	.097	2.467	27.775

MISSION AND DESCRIPTION: This P-1 line funds Special Operations Forces Army and Air Force ground-based trainers to support initial refresher and continuation training and mission rehearsal. Also, funds Data Base Generating Equipment required for building and maintaining real-world training and mission rehearsal scenarios.

FY 2000 PROGRAM JUSTIFICATION: Integrates a Blade Element Model into MH-47E/MH-60K Combat Mission Flight Simulators to improve aircraft performance modeling. Also integrates a tactical operational scene image generator, joint service capable, to provide simultaneous real-world mission rehearsal capability for the 160th Special Operations Aviation Regiment (Airborne) in both flight simulators.

FY 2001 PROGRAM JUSTIFICATION: Integrates and supports MH-47E/MH-60K aircraft concurrency with upgrades including avionics 15.0, aircraft survivability equipment, and integrated aircraft systems.

EXHIBIT P-40 Budget Item Justification Sheet

COST ANALYSIS EXHIBIT (P-5) - Aviation		ation/Budget , Defense-Wie			B. Line Iter				C. DATE: F	ERRIIARV 1	999
Work Breakdown Structure	Floculemen	, Delense- Wit	1997	EV	1998		1999	FY		FY	
			Total Cost	Unit Coat	Total Cost		Total Cost	Unit Cost		Unit Cost	
Cost Elements (\$ thousands)		Unit Cost	Total Cost	Unit Cost	Total Cost	Ont Cost	Total Cost	Ollit Cost	Total Cost	Olit Cost	Total Cost
1. MH47E/60K COMBAT MISSION SIMULATORS			4,425		4,302		6,053		2,107		2,379
2. AC-130U ATD/TB					800						
	 										
									-		
								-			
			<u> </u>								
				<u> </u>						·	
										-	
							(052		2.107		2.27/
LINE ITEM TOTAL		L	4,425	<u> </u>	5,102	<u> </u>	6,053	<u> </u>	2,107	<u> </u>	2,379

Page 1 of 1 Page EXHIBIT P-5, Cost Analysis

	BUDGET I	TEM JUSTIFI	CATION SHEE	ET			DATE FE	BRUARY 1999	
APPROPRIATION / BUDGE PROCUREMENT, DEFENSE				. I	I NOMENCLA I, COMBAT T				
	Prior Years	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05
QUANTITY									
COST (In Millions \$)	319.582	26.387	18.519	16.895	10.470	7.492	5.862	5.110	7.039

MISSION AND DESCRIPTION: The Combat Talon (CT II) is a production and sustainment program in which a specialized avionics suite has been integrated into a C-130H airframe. Its mission is to conduct night, adverse weather, low-level, long-range operations in hostile, politically denied/sensitive, defended areas to infiltrate, resupply, or exfiltrate special operations forces and equipment. All 24 MC-130H aircraft have been procured in prior years. Ongoing efforts focus on meeting operational requirements in the System Operational Requirements Document by establishing organic intermediate and depot level maintenance capability on the APQ-170 Radar, Nose Radome, and AP-102A Mission Computer.

FY 2000 PROGRAM JUSTIFICATION: Transition program from acquisition to post-production improvement and sustainment. Resolves critical deficiency with cargo compartment noise. Continues organic radar depot capability establishment. Continues software support, configuration control, and technical database currency.

FY 2001 PROGRAM JUSTIFICATION: Continues transition from acquisition to post-production improvement and sustainment. Completes organic radar repair depot. Continues software support, configuration control, and technical database currency.

P-1 SHOPPING LIST, ITEM NO. 38

COST ANALYSIS			Activity Title/		1	n Nomenclati							
EXHIBIT (P-5) -	Procuremen		e/Proc. Just./2		MC-130H/C				C. DATE: FEBRUARY 1999				
Work Breakdown Structure			1997		1998		1999		2000	FY			
Cost Elements (\$thousands)		Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost		
ENGINE/ACCESSORIES		<u> </u>											
AVIONICS		<u></u>											
a. CFE		<u> </u>	1,445										
b. GFE													
SERVICE REPORTS/PQDRS											<u> </u>		
NON-RECURRING COSTS													
(Tooling)													
(Other)						·							
OTHER COSTS													
SUBTOTAL FLYAWAY COST			1,445			L							
DEFICIENCY REPORTS					10,355		7,239		2,484		976		
AIRFRAME PGSE													
SOFTWARE SE					2,504		448		497		502		
AVIONICS PGSE			578		4,638				1,761		3,570		
GFE SUPPORT			1,733			[4,000		2,484				
PUBLICATONS/TECH DATA			221				368		1,093		960		
INTERIM CONTRACTOR SUPPORT			8,768		8,017		5,940		5,365		1,17.		
OTHER		1	2,842	i .	873		524		3,211		3,28		
SUBTOTAL SUPPORT COST			14,142		26,387		18,519		16,895		10,470		
BODIOTIES OFF CALL COST		 	1 .,,										
GROSS P-1 END COST		 	 		1 -	<u> </u>							
LESS: PRIOR YR. ADV. PROC	· · · · · · · · · · · · · · · · · · ·	<u> </u>		· · · · · · · · · · · · · · · · · · ·	 								
NET P-1 FULL FUNDING COST		†		·	i	·			1				
PLUS CURRENT YEAR ADV. PROC.		İ			<u> </u>	<u> </u>							
OTHER NON P-1 WEAPON SYS COSTS		 	<u> </u>		i			-					
INITIAL SPARES		1								· - · · · · · · · · · · · · · · · · · ·			
MODIFICATION SUMMARY		 								-	·		
MODIFICATION SOMMART													
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LINE ITEM TOTAL		<u> </u>	15,587	<u> </u>	26,387	<u> </u>	18,519		16,895		10,470		

Page 1 of 1 Page EXHIBIT P-5, Cost Analysis

	BUDGET I	TEM JUSTIF	ICATION SHEE	Т			DATE FE	BRUARY 1999			
APPROPRIATION / BUDGE PROCUREMENT, DEFENSE					M NOMENCLA OF MOD	ATURE		FY03 FY04 FY05			
	Prior Years	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05		
QUANTITY					4	6	9	9	9		
COST (In Millions \$)			3.983	3.582	8.588	100.542	123.683	142.327	167.906		

MISSION AND DESCRIPTION: The CV-22 is a Special Operations Forces (SOF) variant of the V-22 vertical lift, multi-mission aircraft. The CV-22 will provide long range, high speed infiltration, exfiltration, and resupply to Special Forces teams in hostile, denied, and politically sensitive areas. The Navy is the lead service for the joint V-22 program and is responsible for managing and funding the development of all V-22 variants, including the CV-22. The Air Force will procure and field 50 CV-22 aircraft and support equipment for USSOCOM, conduct IOT&E, and provide Type I training. USSOCOM funds the procurement of SOF unique systems, e.g. terrain following radar, electronic warfare suite, etc. The Air Force will fund 85% of the procurement cost for CV-22 training systems; USSOCOM funds 15%. The Air Force and Navy will utilize joint training facilities at Marine Corp Air Station New River, NC to conduct all maintenance training and initial V-22 aircrew qualification training. CV-22 SOF-unique aircrew mission training will be conducted at the Special Operations Mission Qualification Schoolhouse at Kirtland AFB, NM.

FY 2000 PROGRAM JUSTIFICATION: Peculiar Training procures a high fidelity Operational Flight Trainer (OFT) for Special Operations aircrew mission qualification training. The OFT is a non-motion training device that provides a realistic visual simulated environment and full fidelity aircraft functionality. Initial V-22 flight training will be conducted at a joint schoolhouse at New River, NC for both USMC and USAF pilots. After completing initial training, USAF pilots will go through mission qualification training using Weapon System Trainers (WST), OFTs, and training aircraft at Kirtland AFB, NM. The OFT will be used to train special operations mission requirements that don't require full motion fidelity as in the WST. The OFT is being procured with 15% USSOCOM and 85% USAF funding and requires a two year lead time for delivery. In order to support CV-22 initial operational capability in 4QFY04, initial operational aircraft delivery in 2QFY03, and ready for training milestone in 4QFY02, procurement of the OFT must begin in FY 2000. A total of 2 OFTs and 2 WSTs will be required at Kirtland AFB to support training throughput.

FY 2001 PROGRAM JUSTIFICATION: Procures second OFT for Kirtland AFB and first unit training OFT for Hurlburt Field. Production

P-1 SHOPPING LIST, ITEM NO. 39

BUDGET ITEM JUSTIFICATION SHEET		DATE FEBRUARY 1999			
APPROPRIATION / BUDGET ACTIVITY PROCUREMENT, DEFENSE - WIDE / 2	P-1 ITEM NOMENCLATURE CV-22 SOF MOD				
Engineering provides CV-22 unique software engineering support. I items in the first CV-22 production lot.	Pre-planned Product Improvement fu	ands the recurring costs to incorporate			

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P-1 SHOPPING LIST, ITEM NO. 39

Page 2 of 2

COST ANALYSIS			Activity Title/ de/Proc. Just.//		B. Line Iter CV-22 SOF N	n Nomenclatu	іге		C. DATE: FEBRUARY 1999			
EXHIBIT (P-5) Work Breakdown Structure	Procutement		1997		1998		1999	FY		FY:		
Cost Elements (\$thousands)			Total Cost	Unit Cost			Total Cost	Unit Cost	Total Cost	Unit Cost		
1. FLYAWAY COST		Unit Cost	Total Cost	Ont Cost	Total Cost	Omi Cost	Total Cost	Omi Cost	Total Cost	Onit Cost	Total Cost	
A.Pre-Planned Product Improvement		 								578	2,313	
			ļ				 			370	2,313	
Subtotal Flyaway Cost			 								2,313	
2. SUPPORT COST	······································											
A. Peculiar Training Eq							3,983		3,582		5,218	
B. Product Engineering Support											1,057	
Subtotal Support Cost							3,983		3,582		6,275	
										 		
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	<del></del>		ļ				2 002		2.502		0.600	
GROSS P-1 END COST			<u> </u>		ļ		3,983		3,582		8,588	
LESS: PRIOR YR. ADV. PROC					-	<del></del>	2.002		2 500		0.500	
NET P-1 FULL FUNDING COST							3,983		3,582		8,588	
PLUS CURRENT YEAR ADV. PROC.			<del></del>	<del> </del>	<del> </del>	<del> </del>	<b>-</b>				ļ	
OTHER NON P-1 WEAPON SYS COSTS			<del> </del>		<del> </del>	ļ.——	<del> </del>			<del></del>	ļ	
INITIAL SPARES				-	<del> </del>	ļ	<del> </del>		<del></del>		<del> </del>	
MODIFICATION SUMMARY			<del> </del>			-					ļ	
LINE ITEM TOTAL		<del> </del>	0	<del> </del>	0	<b></b>	3,983		3,582		8,588	

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	DATE FEBRUARY 1999								
APPROPRIATION / BUDGE PROCUREMENT, DEFENSE	P-1 ITEM NOMENCLATURE OH-6J PROCUREMENT AND MODIFICATIONS								
	Prior Years	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05
QUANTITY	5	5							
COST (In Millions \$)	7.311	7.712							

MISSION AND DESCRIPTION: The H-6J McDonnell-Douglas 530FF is commercially acquired and modified for Special Operations use. These 5 aircraft will complete the procurement of 10 replacement MDHS 530FF helicopters for the 13 obsolete Vietnam era OH-6C and 8 A/MH-6 training aircraft in the Special Operations Aviation Training Company (SOATC). The SOATC is required to train special operations pilots in night vision device navigation skills, provide transition training for all newly recruited pilots and provide Basic Mission Qualification to all new A/MH-6 pilots. The MH-6J aircraft's low cost per flying hour provides training in navigation skills cheaper than doing initial training in the MH-60 or MH-47 aircraft. Delivery of these aircraft ensures a standard airframe across the MH-6J fleet, commonality between training and mission aircraft, and commonality in parts for the authorized stockage list and prescribed load list. Parts for the OH-6C are no longer in the Army system and must be obtained through individual contracts with commercial vendors, which significantly increases the operations and sustainment costs. In summary, the procurement of the remaining 5 replacement aircraft will reduce the number of Primary Aircraft Training in the SOATC from 21 obsolete aircraft down to 10 common A/MH-6 mission aircraft.

P-1 SHOPPING LIST, ITEM NO. 40

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	BUDGET I	TEM JUSTIFI	CATION SHEE	T	DATE FEBRUARY 1999							
APPROPRIATION / BUDGE PROCUREMENT, DEFENSE					I NOMENCLA GUNSHIP AC		<u></u>		·			
	Prior Years	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05			
QUANTITY						-						
COST (In Millions \$)	279.514	58.852	28.600	26.796	21.361	12.152	8.824	6.833	5.818			

MISSION AND DESCRIPTION: The AC-130U is a new production C-130H airframe converted to a side-firing gunship configuration with advanced sensors, weapons and a digital avionics suite that will provide enhanced operational capability and reliability over the current AC-130H. Mission equipment includes automated fire control radar that gives the AC-130U all-weather strike capability, Infrared Detection System and All Light Level Television. A Trainable Gun Mount System for the 25mm cannon gives the AC-130U dual target attack capability. Further enhancements to the AC-130U are a pressurized cabin for deployment plus inflight reconfiguration-for-firing ability. The primary mission for the AC-130U will be precision fire support for Special Operations Forces, but it has the flexibility to perform armed escort, surveillance, search and rescue, and armed reconnaissance.

FY 2000 PROGRAM JUSTIFICATION: The AC-130U program funds continuation of Interim Contract Support (ICS), procurement of depot-level peculiar support equipment, flightline maintenance job guides, test program set modifications, support for the System Integration Laboratory (SIL), post-production support efforts, and piece part spares in support of the ICS effort.

FY 2001 PROGRAM JUSTIFICATION: Program funds a reduced level of ICS and piece part spares procurement, completes procurement of depot-level peculiar support equipment, and begins a reliability and maintainability assessment of system line replaceable and shop replaceable units. Program also continues SIL support, post-production support, and test program set modification efforts.

P-1 SHOPPING LIST, ITEM NO. 41

COST ANALYSIS			Activity Title/			n Nomenclatu	re		a 5.000 5		200
EXHIBIT (P-5) - Aviation	Procurement		de/Proc. Just./2		AC-130U GU				C. DATE: F		
Work Breakdown Structure		FY			1998	FY			2000		2001
Cost Elements (\$thousands)		Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
1. LRU/SRUs							500		1,400		1,800
2. I & D LEVEL SUPPORT EQUIPMENT		<del></del>			16,888		3,950		2,729		3,142
2. 1 & D LBVEL SUFFORT EQUIPMENT			i i		10,000		3,230		2,727		,,,,,,
3. PUBLICATIONS/TECH DATA			1,513		900		1,936		8,000		1,620
4. INTERIM CONTRACTOR SUPPORT			35,856		40,809		7,668		9,209		10,703
5. ALLTV DEFICIENCIES							13,233		5,000		
6. OTHER (GFE, SUPPORT, TRAINERS)			4,127		255		1,313	- 11.	458		4,096
Subtotal			41,496		58,852		28,600		26,796		21,361
					<u> </u>						
•											
		<u> </u>									
		<b></b>									
	- <del> </del>										
LINE ITEM TOTAL			41,496		58,852		28,600		26,796		21,36

	BUDGET	TITEM JUSTIF	DAT	DATE FEBRUARY 1999							
APPROPRIATION / BUDG PROCUREMENT, DEFEN				P-1 ITEM NOMENCLATURE C-130 MODIFICATIONS							
	Prior Years	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05		
QUANTITY											
COST (In Millions \$)	706.639	96.586	66.987	98.893	34.407	44.544	73.423	60.476	30.493		

MISSION AND DESCRIPTION: Program provides for numerous modifications to various models of the C-130 aircraft. Program is comprised of modifications generated from mission performance deficiencies, logistics problems and changes in the mission of the C-130 aircraft. In FY 1997 this program also resourced program quality deficiency reports.

FY 2000 PROGRAM JUSTIFICATION: Completes procurement of DIRCM. Begins NRE activity for the existing ALE-40 chaff and flare dispenser on AC-130U/H and MC-130E/H aircraft to the ALE-47 configuration. Procures remaining four low light level TV modified systems for AC-130H aircraft. Begins replacement of the current GTC with the 85-185L(A) Auxiliary Power Unit (APU) on AC-130H aircraft. Begins Interim Contractor Support (ICS) on the 85-185L(A) APU on MC-130H and AC-130U aircraft. Begins procurement of a covert laser illuminator for the all light level television on the AC-130U. Begins NRE activity on the SOF common infrared suppression modification for the MC-130E/H and AC-130H/U.

FY 2001 PROGRAM JUSTIFICATION: Continue ALE-47 modification. Continue AC-130H GTC replacement program. Complete AC-130H low light level TV program. Completes ICS on the 85-185L(A) APU on the MC-130H and AC-130U aircraft.

P-1 SHOPPING LIST, ITEM NO. 42

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	BUDGET ITEM JUSTIFICATION S	SHEET				DATE	FEBRU	JARY 199	19	
	APPROPRIATION / BUDGET ACTIVITY PROCUREMENT, DEFENSE - WIDE / 2			MENCLA FICATION						
	MODIF	FICATION S	SUMMA	ιRΥ						
	DESCRIPTION	Prior Years	FY98	<u>FY99</u>	<u>FY00</u>	<u>FY01</u>	<u>FY02</u>	<u>FY03</u>	<u>FY04</u>	FY05
1.	APQ-170 Radar Upgrade (MC-130H)	17.031	8.058	•						
2.	ALQ-172 Electronic CM Jammer Upgrade (AC-130H)	113.346	3.786							
3.	Directional Infrared Countermeasures (DIRCM) (AC-130H/U, MC-130E/H)	45.588	47.044	8.469	65.094					
4.	DIRCM Laser Upgrade	.000					12.659	14.587	11.657	
5.	DIRCM Multi-Spectral Missile Warning System Upgrade	.000						8.752	10.686	8.735
6.	MC-130H Communications Navigation Upgrade	20.446	9.641	4.773						
7.	MC-130H Underbelly Protection Program	.000	.875							
8.	MC-130H Auxillary Power Unit Upgrade	5.440	.844		.199	.195				
9.	ALQ-172 Low Band Jammer Upgrade/ECP-93 (AC-130U, MC-130H)	.000	.796	22.021						
10.	AC-130H Weight Reduction	1.018	.499	2.688	.993					
11.	AC-130H Low Light Level TV Replacement	2.152	7.000	14.131	11.791	1.076				
12.	AC-130U P3I (Comm Upgrade)	.000		6.300						
13.	AC-130U P3I (ALLTV, EW Upgrade, R.A.D. Upgrade	.000		6.112				18.477	15.544	

P-1 SHOPPING LIST, ITEM NO. 42

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 $\label{eq:page-2} Page-2 \quad of \quad 3$  EXHIBIT P-40 Budget Item Justification Sheet