

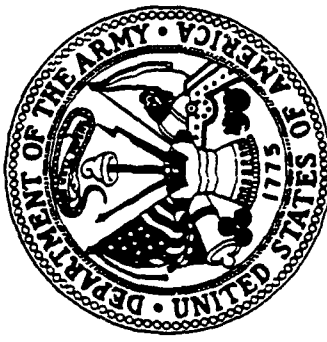
11

THE COPY

AD-A218 768

DEPARTMENT OF THE ARMY
JUSTIFICATION OF ESTIMATES FOR FY 1991 BUDGET
SUBMITTED TO CONGRESS

JANUARY 1990



DTIC
ELECTE
MAR 07 1990
S B D

DISTRIBUTION STATEMENT A
Approved for public release
Distribution Unlimited

AIRCRAFT PROCUREMENT, ARMY PROGRAMS

AIRCRAFT	MISSILES
WEAPONS AND TRACKED COMBAT VEHICLES	
AMMUNITION	OTHER

20 03 06 05 7 80 03 00 019

Reproduction of this document is permitted.

**NOTE: Please notify SAFM-BUI-P, Rm 3C476, Pentagon (AV 225-8684) of
any changes or additions that should be made to this distribution.**

**DEPARTMENT OF THE ARMY
Office of the Assistant Secretary of the Army
(Financial Management)**

DEPARTMENT OF THE ARMY
AIRCRAFT PROCUREMENT , ARMY

JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1991 BUDGET

TABLE OF CONTENTS

	<u>PAGE NO.</u>
Section 1 - Budget Appendix Extract	1-1
Section 2 - Budget Activity Justifications	1-11
Section 3 - Comparison of Program Requirements and Financing	1-23
Section 4 - Status of Aircraft Modification Programs ,	1-28
Section 5 - Flight Simulator Program ,	1-32

AIRCRAFT PROCUREMENT, ARMY

Section 1

Budget Appendix Extract

Appropriation Language

Program and Financing Schedule

1-1

STATEMENT "A" per Bill Schultz
SAFM-BY-P
TELECON 3/6/90

VG

Accession For	
NTIS GRA&I	☒
DTIC TAB	☐
Unannounced	☐
Justification	
By <i>per Telecom</i>	
Distribution/	
Availability Codes	
Avail and/or	
Dist	Special
A-1	

APPROPRIATION LANGUAGE

For construction, procurement, production, modification, and modernization of aircraft, equipment, including ordnance, ground handling equipment, spare parts, and accessories therefor; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefor, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes; \$3,715,480,000 in fiscal year 1990 to remain available for obligation until September 30, 1992, and \$1,583,200,000 in fiscal year 1991 to remain available for obligation until September 30, 1993.

Aircraft Procurement, Army
Program and Financing (in Thousands of dollars) SUMMARY

29 Jan 90

Identification code	21-2031-0-1-051	Budget plan (amounts for PROCUREMENT actions programed)				Obligations							
		1989 actual		1990 est.		1991 est.		1989 actual		1990 est.		1991 est.	
Program by activities:													
Direct program:													
00.0101	Aircraft	1,409,508	1,912,948	687,572	1,371,350	1,819,512	840,540						
00.0201	Modification of aircraft	773,731	1,045,331	624,682	812,853	1,101,961	679,889						
00.0301	Spares and repair parts	547,316	534,090		584,369	473,580	68,066						
00.0401	Support equipment and facilities	124,650	223,111	270,946	191,213	225,135	258,591						
00.9101	Total direct program	2,855,205	3,715,480	1,583,200	2,959,785	3,620,188	1,847,086						
01.0101	Reimbursable program	53,253	60,300	53,600	65,899	69,521	53,600						
10.0001	Total	2,908,458	3,775,780	1,636,800	3,025,684	3,689,709	1,900,686						
Financing:													
Offsetting collections from:													
11.0001	Federal funds(-)	-30,837	-46,496	-39,796	-28,249	-46,496	-39,796						
13.0001	Trust funds(-)	-22,416	-13,311	-13,311	-22,022	-13,311	-13,311						
14.0001	Non-Federal sources(-)		-493	-493		-493	-493						
17.0001	Recovery of prior year obligations				-30,981								
Unobligated balance available, start of year:													
21.4002	For completion of prior year budget plans												
21.4003	Available to finance new budget plans	-44,800	-8,333	-16,000	-695,252	-600,666	-686,737						
21.4009	Reprogramming from/to prior year budget plan	-5,360			-44,800	-8,333	-16,000						
22.4001	Unobligated balance transferred to other accounts	40,675	3,333		40,675	8,333							
23.4090	Reduction pursuant to P.L. 99-177 in unobligated balance available, end of year:												
24.4002	For completion of prior year budget plans	8,333	16,000		600,666	686,737	422,851						
24.4003	Available to finance subsequent year budget	7,147			8,333	16,000							
25.0001	Unobligated balance lapsing				7,147								
39.0001	Budget authority	2,861,200	3,731,480	1,567,200	2,861,200	3,731,480	1,567,200						
Budget authority:													
40.0001	Appropriation	2,883,700	3,789,937	1,583,200	2,883,700	3,789,937	1,583,200						
40.0004	Reduction pursuant to P.L. 100-463	-912			-912								
40.0005	Reduction pursuant to P.L. 101-165		-1,058			-1,058							
40.0090	Reduction pursuant to P.L. 99-177		-44,799			-44,799							
41.0001	Transferred to other accounts(-)	-21,588	-12,600		-21,588	-12,600							
41.2201	Transferred to other accounts (unobligated)			-16,000			-16,000						
43.0001	Appropriation (adjusted)	2,861,200	3,731,480	1,567,200	2,861,200	3,731,480	1,567,200						

Aircraft Procurement, Army
Program and Financing (in Thousands of dollars) SUMMARY

29 Jan 90

Identification code	21-2031-0-1-051	1989 actual	1990 est.	1991 est.
Relation of obligations to outlays:				
71.0001	Obligations incurred, net	2,975,413	3,629,409	1,847,088
72.4001	Obligated balance, start of year	4,062,411	4,158,855	4,905,264
74.4001	Obligated balance, end of year	-4,158,855	-4,905,264	-3,789,250
77.0001	Adjustments in expired accounts (net)	-14,089		
78.0001	Adjustments in unexpired accounts	-30,981		
90.0001	Outlays	2,833,899	2,883,000	2,963,100

Aircraft Procurement, Army
Object Classification (in Thousands of dollars) SUMMARY

29 Jan 90

Identification code	21-2031-0-1-051	1989 actual	1990 est.	1991 est.
Direct obligations:				
Other services:				
125.004	Other	668,603	505,225	542,307
126.001	Supplies and materials	496,530	526,035	564,645
131.001	Equipment	1,794,652	2,588,928	740,134
199.001	Total Direct obligations	2,959,785	3,620,188	1,847,086
Reimbursable obligations:				
Other services:				
225.004	Other	14,886	8,618	8,618
226.001	Supplies and materials	11,055	8,973	8,973
231.001	Equipment	39,958	51,930	36,009
299.001	Total Reimbursable obligations	65,899	69,521	53,600
999.901	Total obligations	3,025,684	3,689,709	1,900,686

Aircraft Procurement, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1987

29 Jan 90

Identification code	21-2031-0-1-051	Budget plan (amounts for PROCUREMENT actions programed)		Obligations			
		1989 actual	1990 est.	1991 est.	1989 actual	1990 est.	1991 est.
Program by activities:							
Direct program:							
00.0101	Aircraft				52,831		
00.0201	Modification of aircraft				55,163		
00.0301	Spares and repair parts				10,835		
00.0401	Support equipment and facilities				16,526		
00.9101	Total direct program				135,355		
01.0101	Reimbursable program				257		
10.0001	Total				135,612		
Financing:							
Offsetting collections from:							
11.0001	Federal funds(-)				2,017		
13.0001	Trust funds(-)				22		
17.0001	Recovery of prior year obligations				-22,939		
21.4002	Unobligated balance available, start of year:						
21.4003	For completion of prior year budget plans				-115,568		
21.4009	Available to finance new budget plans				-14,800		
22.4001	Reprogramming from/to prior year budget plan				-857		
25.0001	Unobligated balance transferred to other accounts				8,510		
	Unobligated balance lapsing				7,147		
39.0001	Budget authority						

Aircraft Procurement, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1988 29 Jan 90

Identification code	21-2031-0-1-051	Budget Plan (amounts for PROCUREMENT actions programmed)			Obligations		
		1989 actual	1990 est.	1991 est.	1989 actual	1990 est.	1991 est.
Program by activities:							
Direct program:							
00.0101	Aircraft				111,952	57,029	
00.0201	Modification of aircraft				157,815	82,528	
00.0301	Spares and repair parts				53,118	7,825	
00.0401	Support equipment and facilities				71,856	18,547	
00.9101	Total direct program				394,741	165,929	
01.0101	Reimbursable program				15,793	5,817	
10.0001	Total				410,534	171,746	
Financing:							
Offsetting collections from:							
11.0001	Federal funds(-)				571		
13.0001	Trust funds(-)				372		
17.0001	Recovery of prior year obligations				-8,042		
Unobligated balance available, start of year:							
21.4002	For completion of prior year budget plans				-579,684	-171,746	
21.4003	Reprogramming from/to prior year budget plan				-30,000	-2,338	
22.4001	Unobligated balance transferred to other acc				32,165		
23.4090	Reduction pursuant to P.L. 99-177 in unob ba						
24.4002	Unobligated balance available, end of year:						
24.4003	For completion of prior year budget plans				171,746		
	Available to finance subsequent year budg				2,338		
39.0001	Budget authority						

Aircraft Procurement, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1989

29 Jan 90

Identification code	21-2031-0-1-051	Budget Plan (amounts for PROCUREMENT actions programmed)			Obligations		
		1989 actual	1990 est.	1991 est.	1989 actual	1990 est.	1991 est.
Program by activities:							
Direct program:							
00.0101	Aircraft	1,409,508			1,206,567	127,760	75,181
00.0201	Modification of aircraft	773,731			599,875	125,657	48,199
00.0301	Spares and repair parts	547,316			520,416	9,381	17,519
00.0401	Support equipment and facilities	124,650			102,831	15,918	5,901
00.9101	Total direct program	2,855,205			2,429,689	278,716	146,800
01.0101	Reimbursable program	53,253			49,849	3,404	
10.0001	Total	2,908,458			2,479,538	282,120	146,800
Financing:							
Offsetting collections from:							
11.0001	Federal funds(-)	-30,837			-30,837		
13.0001	Trust funds(-)	-22,416			-22,416		
21.4002	Unobligated balance available, start of year:						
21.4003	For completion of prior year budget plans						
23.4090	Available to finance new budget plans						
	Reduction pursuant to P.L. 99-177 in unob ba						
24.4002	Unobligated balance available, end of year:						
24.4003	For completion of prior year budget plans						
	Available to finance subsequent year budget	5,995			428,920	146,800	
39.0001	Budget authority	2,861,200			2,861,200		
Budget authority:							
40.0001	Appropriation	2,883,700			2,883,700		
40.0004	Reduction pursuant to P.L. 100-463	-912			-912		
41.0001	Transferred to other accounts(-)	-21,588			-21,588		
43.0001	Appropriation (adjusted)	2,861,200			2,861,200		

Aircraft Procurement, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1990

29 Jan 90

Identification code	21-2031-0-1-051	Budget Plan (amounts for PROCUREMENT actions programmed)			Obligations		
		1989 actual	1990 est.	1991 est.	1989 actual	1990 est.	1991 est.
Program by activities:							
Direct program:							
00.0101	Aircraft		1,912,948		1,634,723	180,937	
00.0201	Modification of aircraft		1,045,331		893,776	8,566	
00.0301	Spare and repair parts		534,090		456,374	3,547	
00.0401	Support equipment and facilities		223,111		190,670	21,098	
00.9101	Total direct program		3,715,480		3,175,543	351,148	
01.0101	Reimbursable program		60,300		60,300		
10.0001	Total		3,775,780		3,235,843	351,148	
Financing:							
Offsetting collections from:							
11.0001	Federal funds(-)		-46,496		-46,496		
13.0001	Trust funds(-)		-13,311		-13,311		
14.0001	Non-Federal sources(-)		-493		-493		
21.4002	Unobligated balance available, start of year:						
21.4003	For completion of prior year budget plans			-16,000		-539,937	
	Available to finance new budget plans					-16,000	
24.4002	Unobligated balance available, end of year:		16,000		539,937	188,789	
24.4003	For completion of prior year budget plans				16,000		
	Available to finance subsequent year budget						
39.0001	Budget authority		3,731,480	-16,000	3,731,480	-16,000	
Budget authority:							
40.0001	Appropriation		3,789,937		3,789,937		
40.0005	Reduction pursuant to P.L. 101-165		-1,058		-1,058		
40.0090	Reduction pursuant to P.L. 99-177		-44,799		-44,799		
41.0001	Transferred to other accounts(-)		-12,600		-12,600		
41.2201	Transferred to other accounts (unob bal)			-16,000		-16,000	
43.0001	Appropriation (adjusted)		3,731,480	-16,000	3,731,480	-16,000	

Aircraft Procurement, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1991

29 Jan 90

Identification code	21-2031-0-1-051	Budget Plan (amounts for PROCUREMENT actions programed)			Obligations		
		1989 actual	1990 est.	1991 est.	1989 actual	1990 est.	1991 est.
Program by activities:							
Direct program:							
00.0101	Aircraft			687,572			584,422
00.0201	Modification of aircraft			624,682			533,124
00.0401	Support equipment and facilities			270,946			231,592
00.9101	Total direct program			1,583,200			1,349,138
01.0101	Reimbursable program			53,600			53,600
10.0001	Total			1,636,800			1,402,738
Financing:							
Offsetting collections from:							
11.0001	Federal funds(-)			-39,796			-39,796
13.0001	Trust funds(-)			-13,311			-13,311
14.0001	Non-Federal sources(-)			-493			-493
24.4002	Unobligated balance available, end of year:						
	For completion of prior year budget plans						234,062
40.0001	Budget authority (Appropriation)			1,583,200			1,583,200

AIRCRAFT PROCUREMENT, ARMY

Section 2

Budget Activity Justification

Activity 1 - Aircraft

Activity 2 - Modification of Aircraft

Activity 3 - Spares and Repair Parts

Activity 4 - Support Equipment and Facilities

Department of the Army	Appropriation:	FY 1991
Annual Budget Estimates	AIRCRAFT PROCUREMENT, ARMY	BUDGET
JUSTIFICATION		
Program or Budget Project Account	(THOUSANDS OF DOLLARS)	
Activity 1 - Aircraft		
	Actual	Estimate
	FY 1989	FY 1990
Direct Budget Plan	\$1,409,508	\$1,912,948
		FY 1991
		\$687,572

Section 1 - PURPOSE AND SCOPE

Provides for procurement and manufacture of airplanes, helicopters, and associated aircraft armament, flight simulators, training devices and avionics equipment.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

Grisly Hunter - (P-1 Line Item No. 1):

(\$ in Thousands)
 FY 1990 FY 1991
 \$ 9,781 \$ 10,430

These funds are requested for a classified program. Program description is provided separately.

RC-12H/K Reconnaissance Airplane (P-1 Line Item No. 2):

(\$ in Thousands)
 FY 1990 FY 1991
 \$ 52,016 \$ 87,407

Funding in FY 1990 (\$52.0M) procured five RC-12K reconnaissance aircraft and associated mission equipment. In FY 1991, requested funding (\$87.4M) will procure five additional RC-12K aircraft and the related mission equipment. This system, GUARDRAIL Common Sensor, provides full Signal Intelligence support, including ELINT and COMINT at the Corps level.

Total Package Fielding (P-1 Line Item No. 3):

(\$ in Thousands)
 FY 1990 FY 1991
 \$ - \$ 16,200

FY 1991 request is for initial support equipment which is packaged with equipment end items prior to delivery of the equipment to Army units.

AH-64 Attack Helicopter (APACHE) - (P-1 Line Item No. 4 and 5):

(\$ in Thousands)	
FY 1990	FY 1991
\$1,469,522	\$104,226

\$1,469.5 million in FY 1990 will procure 132 AH-64 APACHE Attack Helicopters. The \$104.2 million requested in FY 1991 will provide for termination costs associated with ending of production and management and overhead costs for those aircraft procured in prior years still coming out of production. The APACHE is a twin-engine, two-place, fully integrated anti-armor weapon system capable of destroying tanks and other armored vehicles under day, night and adverse weather conditions. The aircraft employs the HELLFIRE anti-tank missile, Hydra 70 rockets, and 30mm gun. Target acquisition is accomplished by the Target Acquisition and Designation Sight (TADS) which enables extremely accurate fire with a high first round hit probability. Night navigation is provided by the Pilot Night Vision Sensor (PNVS). The mobility, flexibility, and rapid response of the AH-64 will provide the balance required to help counter the Warsaw Pact threat and allow the AH-64 to be a key member of the Rapid Deployment Force. The request also includes funding (\$12.3 million in FY 1990 and \$12.9 million in FY 1991) to procure 4 Combat Weapon Emergency Procedures Trainers in FY 1990 and 5 in FY 1991.

UH-60 BLACK HAWK (Multiyear Procurement) - (P-1 Line Item 6 and 7):

(\$ in Thousands)	
FY 1990	FY 1991
\$381,629	\$469,309

\$381.6 million in FY 1990 procured 72 UH-60 BLACK HAWK helicopters, including 11 airframes for conversion to the MH-60K configuration. The \$469.3 million requested in FY 1991 is to procure 72 UH-60 BLACK HAWK helicopters including another 11 airframes for conversion to the MH-60K configuration. These funds include \$197.2 million in FY 1991 for advance procurement of long leadtime items required to support the follow-on multiyear procurement of airframes. The BLACK HAWK will modernize the Army's utility helicopter fleet. It will enhance tactical mobility with increased speed, lift capacity, range, reliability, availability, maintainability, and survivability at reduced overall operating costs. This utility helicopter is the Army's first true squad carrying helicopter.

Department of the Army		Appropriation:		FY 1991
Annual Budget Estimates		AIRCRAFT PROCUREMENT, ARMY		BUDGET
JUSTIFICATION				
Program or Budget Project Account		(THOUSANDS OF DOLLARS)		
Activity 2 - Aircraft Modifications				
		Actual	Estimate	
		FY 1989	FY 1990	FY 1991
Direct Budget Plan		\$773,731	\$1,045,331	\$624,682

Section 1 - PURPOSE AND SCOPE

Provides for modifications of items and upgrade of equipment procured by the Aircraft Procurement, Army appropriation, including modification kits.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

Installation of Modernization Equipment - (P-1 Line Item No. 8):

(\$ in Thousands)	
FY 1990	FY 1991
\$ 82,234	\$ -

Funds in FY 1990 provided for application of modification kits (formerly funded in Operation and Maintenance, Army). This transfer from OMA reflects the application of the full funding policy to modernization equipment. FY 1991 installation funding is included in each individual modification program.

OV-1 Surveillance Airplane MODS - (P-1 Line Item No. 9):

(\$ in Thousands)	
FY 1990	FY 1991
\$ 200	\$ 200

Funds in FY 1990 and FY 1991 provide sustainment funding for continued safety reliability and maintainability improvements.

RC-12D MODS - (P-1 Line Item No. 10):

(\$ in Thousands)	
FY 1990	FY 1991
\$ 42,554	\$ 31,604

These funds are requested to procure mission equipment and ground support equipment to upgrade GUARDRAIL/Common Sensor aircraft procured in previous years.

RU-21 MODS - (P-1 Line Item No. 11):

(\$ in Thousands)	
FY 1990	FY 1991
\$ 1,513	\$ 9,737

These funds are requested to complete upgrades in avionics to the RU-21A/B/C/H and upgrades to the aircraft survivability equipment for the RU-21H. Upgrades are required to overcome marginal logistics supportability for the avionics and provide active countermeasures against hostile Continuous Wave radars and surface-air and air-air missile systems.

AH-1S MODS - (P-1 Line Item No. 12):

(\$ in Thousands)	
FY 1990	FY 1991
\$ 5,820	\$ 7,977

These funds are requested to continue modifications to the AH-1 COBRA fleet which will improve reliability, safety and capability, and extend the life and increase operational readiness. FY 1991 funds will provide for improvements to the air filter and TOW missile system test set, and redesign of the swashplate.

AH-64 MODS - (P-1 Line Item No. 13):

(\$ in Thousands)	
FY 1990	FY 1991
\$ 20,745	\$ 85,687

These funds are requested to continue modifications to the AH-64 APACHE helicopter, including integration of the Air-to-Air Stinger and Airborne Target Handover System; improvements to optics; procurement of laser protective visors; and installation of electromagnetic interference protection, the AN/AVR-2 laser warning receiver and secure lighting.

CH-47 Cargo Helicopter (MODS) - (P-1 Line Item No. 14 and 15):

(\$ in Thousands)	
FY 1990	FY 1991
\$273,703	\$294,204

These funds are requested to continue the modernization program which upgrades CH-47 A and C models to the D configuration. These advances in design technology improve reliability and maintainability, reduce vulnerability, and increase life expectancy of each aircraft 20 years. The CH-47 is the Army's only active medium lift helicopter and is a key element in the Rapid Deployment Force. Operating at a rate of 48 aircraft per year, the total modernization program of 472 aircraft will be completed with a three year multi-year contract in FY 1990-1992.

OH-58 MODS - (P-1 Line Item No. 16):

(\$ in Thousands)	
FY 1990	FY 1991
\$ 22,959	\$ 24,695

These funds are requested to continue safety and operational enhancements to the current fleet. The modifications will also provide a standoff, defensive/offensive capability against airborne and other armed threats.

UH-1 MODS - (P-1 Line Item No. 17):

(\$ in Thousands)	
FY 1990	FY 1991
\$ 9,489	\$ 26,838

These funds are requested to continue safety and sustainment modifications that will provide the Army an effective and supportable fleet of lift helicopters through the year 2007. FY 1991 modifications include Improved Particle Separator, Improved Oil Filtration, and installation of Single Channel Ground/Airborne Radio (SINGARS). Also included in the request are funds for upgrades to UH-1 Flight Simulators.

UH-60 MODS - (P-1 Line Item No. 18):

(\$ in Thousands)	
FY 1990	FY 1991
\$ 40,357	\$ 83,527

These funds are requested to continue various safety and operational modifications to the UH-60 BLACK HAWK helicopter. FY 1991 modifications include electromagnetic environment protection, external stores support system, hover infrared suppressor system, SINGARS, auxiliary power unit particle separator, nap-of-the-earth communications, flight data recorder, glass windshield, MEDEVAC kits, and Command Control Console.

Army Helicopter Improvement Program (AHIP) - (P-1 Line Item No. 19 and 20):

(\$ in Thousands)	
FY 1990	FY 1991
\$192,349	\$ 47,993

Funds appropriated in FY 1990 allow the modification of 36 helicopters to the OH-58D configuration. Funds requested in FY 1991 will provide for the conversion of OH-58D helicopters to an armed configuration.

Aircraft Survivability Equipment (ASE) MODS - (P-1 Line Item No. 22):

(\$ in Thousands)	
FY 1990	FY 1991
\$ 7,041	\$ 11,453

These funds are requested to continue modifications for aircraft survivability equipment to meet current new and emerging threats. FY 1991 modifications include the AN/ALQ-144 Infrared Jammers and upgrades to the AN/APR-39A(V)1 Spiral Antenna Assembly.

Aircraft 9VV MODS - (P-1 Line Item No. 23):

(\$ in Thousands)	
FY 1990	FY 1991
\$ 19,484	\$ -

\$19.5 million in FY 1990 was appropriated for a classified program. Program description was provided separately.

Special Operations Forces (SOF) Aircraft MODS - (P-1 Line Item No. 24 and 25):

(\$ in Thousands)	
FY 1990	FY 1991
\$326,101	\$ -

Funds in FY 1990 provide for modifications to CH-47 and UH-60 airframes into MH-47E and MH-60K Special Operations Forces aircraft. The SOF Aircraft Modifications program provides for necessary modifications to upgrade MH-47E and MH-60K helicopters to configurations necessary to conduct precise navigation and extended range operations at tactical altitudes through unfamiliar mountainous terrain in support of special operations forces. In FY 1991 funding responsibility is transferred to Special Operations Command and is reflected in the Procurement, Defense Agencies budget request.

Tractor Heavy - (P-1 Line Item No. 26):

(\$ in Thousands)	
FY 1990	FY 1991
\$ 782	\$ 767

\$.8 million in FY 1991 is requested for a classified program. Program description is provided separately.

Department of the Army	Appropriation:	FY 1991
Annual Budget Estimates	AIRCRAFT PROCUREMENT, ARMY	BUDGET
JUSTIFICATION		
Program or Budget Project Account	(THOUSANDS OF DOLLARS)	
Activity 3 - Spares and Repair Parts		
Direct Budget Plan		
	Actual	Estimate
	FY 1989	FY 1990
	FY 1991	FY 1991
	\$547,316	\$534,090
	\$	\$
	0	0

Section 1 - PURPOSE AND SCOPE

Provides for procurement of depot repairable spares and repair parts including provisioning (initial issue), replenishment, mobilization reserve, and avionics spares.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

Spares and Repair Parts - (P-1 Line Item No. 27):

(\$ in Thousands)
 FY 1990 FY 1991
 \$534,090 \$ -

Initial Spares: In FY 1990 \$175.2 million was appropriated to procure spares and repair parts in support of initial fielding of new or modified systems. These funds also support the procurement of aircraft engines and engine modules over the life cycle of the aircraft. Spares are an integral part of the development of any aircraft system (new procurement or modification). Initial spares are ordered to support the major item delivery and fielding schedule to preclude grounding the system for lack of spare parts. FY 1991 Initial Spares will be procured using the Army Stock Fund. Aircraft end items supported in FY 1990 were:

Program	(\$ Millions)
	FY 1990
RC-12K	22.0
AH-64	66.2
UH-60	49.1

Program	(\$ Millions) FY 1990
AH-1S	5.0
CH-47D	2.1
ASE	17.0
Avionics Support Equipment	1.8
AGSE	.1
Hellfire	.2
ATAS	3.6
Avionics	8.2
Total Initial Spares	175.2

Replenishment Spares: \$358.9 million in FY 1990 was appropriated for replenishment spares. The peacetime replenishment spares support the Army's flying hour program, depot and pipeline requirements for the life of the system. War reserves provide initial combat surge support until resupply can be established. Beginning in FY 1991, Replenishment Spares will be procured using the Army Stock Fund.

Department of the Army		Appropriation:		FY 1991
Annual Budget Estimates		AIRCRAFT PROCUREMENT, ARMY		BUDGET
JUSTIFICATION				
Program or Budget Project Account		(THOUSANDS OF DOLLARS)		
Activity 4 - Support Equipment and Facilities				
		Actual	Actual	Estimate
		FY 1989	FY 1990	FY 1991
Direct Budget Plan		\$124,650	\$223,111	\$270,946

Section 1 - PURPOSE AND SCOPE

Provides for aircraft survivability equipment, avionics support equipment, common ground equipment (including tool sets, shop sets and components thereof), ground handling/servicing equipment, special test and diagnostic equipment, fixed base airfield support equipment (air traffic control), and aviation life support equipment (ALSE); for tactical air traffic control systems; for industrial facilities including provisions for industrial facilities, depot maintenance plant equipment and value engineering; and for war consumables including lightweight rocket launchers.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

Aircraft Survivability Equipment (ASE) - (P-1 Line Item No. 28):

	(\$ in Thousands)
FY 1990	FY 1991
\$ 97,666	\$107,890

Funding is required to continue procurement of Radar Warning Receivers, Infrared Jammers, Radar Jammers/Countermeasures, and Interactive Systems. The ASE program provides self-protection, both active and passive, against antiaircraft systems. It enables Army tactical aircraft to accomplish missions on the modern battlefield by enhancing aircraft and aircrew survivability.

Airborne Command and Control Consoles - (P-1 Line Item No. 29):

	(\$ in Thousands)
FY 1990	FY 1991
\$ 4,743	\$ -

Funding in FY 1990 provides for production and installation of the AN/ASC-15B console.

Avionics Support Equipment - (P-1 Line Item No. 30):

(\$ in Thousands)	
FY 1990	FY 1991
\$ 30,422	\$ 43,634

Funding is requested to procure third generation aviation night vision goggles which provide enhanced varfighting capability during night helicopter operations.

Common Ground Equipment - (P-1 Line Item No. 31):

(\$ in Thousands)	
FY 1990	FY 1991
\$ 45,777	\$ 67,894

Funding is required to continue procurement of various items of aircraft support equipment, including Airfield Support Equipment; Aviation Life Support Equipment; Sets, Kits and Outfits; Aviation Ground Support Equipment; Position Locator System; and the AN/PRC-112 Survival Radio.

Air Traffic Control - (P-1 Line Item No. 32):

(\$ in Thousands)	
FY 1990	FY 1991
\$ 7,690	\$ 8,690

\$7.7 million in FY 1990 and \$8.7 million in FY 1991 is requested to continue the procurement of tactical Air Traffic Control (ATC) systems to fill critical shortages of equipment in both Active and Army National Guard units.

Synthetic Flight Training Systems - (P-1 Line Item No. 33):

(\$ in Thousands)	
FY 1990	FY 1991
\$ 9,841	\$ 10,426

Funding is required for upgrades to the AH-1 Flight/Weapons Simulator. This item is obsolete and is not supportable except through firms dealing in used computer equipment. Upgrade will consist of computer replacement and upgrades to avionics, aircraft survivability equipment, weaponization, and other changes dictated by aircraft modifications.

Industrial Facilities - (P-1 Line Item No. 34):

(\$ in Thousands)	
FY 1990	FY 1991
\$ 22,751	\$ 27,838

Funding is requested to support Army Aviation Program Industrial Facilities. The FY 1990 funds are for Rehabilitation and Provisioning of Industrial Facilities (\$4.6 million), Depot Maintenance Plant Equipment (\$16.9 million) and Value Engineering (\$1.3 million). The FY 1991 request includes funding for Rehabilitation and Provisioning of Industrial Facilities (\$11.1 million), Depot Maintenance Plant Equipment (\$15.4 million) and Value Engineering (\$1.3 million).

War Consumables - (P-1 Line Item No. 35):

(\$ in Thousands)	
FY 1990	FY 1991
\$ 4,221	\$ 4,574

Funding is requested for M260 and M261 Lightweight Rocket Launchers to be used on the AH-1 COBRA/TOW and AH-64 APACHE attack helicopters. These launchers are required in order to fire the new family of Hydra 70 rockets with remote set fuzing options.

AIRCRAFT PROCUREMENT, ARMY

Section 3

Comparison of Programming Requirements and Financing

Comparison of FY 1990 program requirements as reflected in the FY 1990/1991 Amended Budget with FY 1990 program requirements as shown in the FY 1991 Budget Estimate.

Comparison of FY 1990 financing as reflected in the FY 1990/1991 Amended Budget with FY 1990 financing as shown in the FY 1991 Budget Estimate.

Comparison of FY 1989 program requirements as reflected in the FY 1990/1991 Amended Budget with FY 1989 program requirements as shown in the FY 1991 Budget Estimate.

Comparison of FY 1989 financing as reflected in the FY 1990/1991 Amended Budget with FY 1989 financing as shown in the FY 1991 Budget Estimate.

COMPARISON OF FY 1990 PROGRAM REQUIREMENTS
AS REFLECTED IN THE FY 1990/1991 AMENDED BUDGET
WITH THE FY 1990 PROGRAM REQUIREMENTS AS SHOWN
IN THE FY 1991 BUDGET ESTIMATE

SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

Appropriation Aircraft Procurement, Army	FY 1990 Requirements Per FY 1990/1991 Amended Budget	FY 1990 Requirements Per FY 1991 Budget Estimate	Increase (+) or Decrease (-)
Activity 1 - Aircraft	1,277,089	1,912,948	+635,859
Activity 2 - Modification of Aircraft	854,608	1,045,331	+190,723
Activity 3 - Spares and Repair Parts	553,423	534,090	-19,333
Activity 4 - Support Equipment and Facilities	220,980	223,111	+2,131
TOTAL	2,906,100	3,715,480	+809,380

EXPLANATION BY ACTIVITY

Activity 1 - Aircraft - The net increase results from Congressional adjustments to the AH-64 (\$+735,471), AH-64 Adv Proc (\$-36,500), UH-60 (\$+31,800), MH-60K (\$-71,300), general reductions for Gramm-Rudman-Hollings sequestration (\$-22,892) and contractor travel (\$-720).

Activity 2 - Modification of Aircraft - The net increase results from Congressional adjustments to AH-64 Mods (\$-17,104), CH-47 (\$-19,200), CH-47 Adv Proc (\$-8,300), OH-58 Mods (\$-5,000), AHIP (\$+195,000), SOF Mods (\$-9,900), Installation of Modernization Equipment (\$+84,070), general reductions for Gramm-Rudman-Hollings sequestration (\$-12,697) contractor travel (\$-146), and a deferral of the OV-1 Modification Program (\$-16,000).

Activity 3 - Spares and Repair Parts - The net decrease results from the general reduction for Gramm-Rudman-Hollings sequestration (\$-6,541), contractor travel (\$-192) and reprogramming for Army for Military Pay (\$-12,600).

Activity 4 - Support Equipment and Facilities - The net increase results from Congressional increase for Airborne Command and Control Module (\$+4,800) and general reduction for Gramm-Rudman-Hollings sequestration (\$-2,669).

COMPARISON OF FY 1990 FINANCING AS REFLECTED
IN THE FY 1990/1991 AMENDED BUDGET WITH FY 1990 FINANCING
AS SHOWN IN FY 1991 BUDGET ESTIMATE

	(In Thousands of Dollars)			
Appropriation	FY 1990 Financing Per FY 1990/1991 Amended Budget	FY 1990 Financing Per FY 1991 Budget Estimate	FY 1990 Increase (+) or Decrease (-)	
Aircraft Procurement, Army				
Program Requirements (Total)	2,955,400	3,775,780	+820,380	
Program Requirements (Service Account)	(2,906,100)	(3,715,480)	(+809,380)	
Program Requirements (Reimbursable)	(49,300)	(60,300)	(+11,000)	
Less:				
Anticipated reimbursements	-49,300	-60,300	-11,000	
Unobligated balance available to finance new budget plans		- 8,333	- 8,333	
Add:				
Unobligated balance available to finance subsequent year budget plans		+16,000	+16,000	
Unobligated balance reduction pursuant to P.L. 99-177		+8,333	+8,333	

BUDGET AUTHORITY

Appropriation

2,906,100 3,731,480 +825,380

EXPLANATION:

The reimbursable program (offsetting collections) increased by \$11,000 because of new Army National Guard orders.

The unobligated balance available from prior year to finance new budget plans and unobligated balance reduction pursuant to P.L. 99-177 plans represents Gramm-Rudman-Hollings sequestration of FY 1989 (\$-5,995) and FY 1988 (\$-2,338) funds.

The unobligated balance available to finance subsequent year budget plans represents an FY 1990 deferral.

COMPARISON OF FY 1989 PROGRAM REQUIREMENTS
AS REFLECTED IN THE FY 1990/1991 AMENDED BUDGET
WITH THE FY 1989 PROGRAM REQUIREMENTS AS SHOWN
IN THE FY 1991 BUDGET ESTIMATE
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

Appropriation Aircraft Procurement, Army	FY 1989 Requirements Per FY 1990/1991 Amended Budget	FY 1989 Requirements Per FY 1991 Budget Estimate	Increase (+) or Decrease (-)
Activity 1 - Aircraft	1,430,126	1,409,508	-20,618
Activity 2 - Modification of Aircraft	743,065	773,731	+30,666
Activity 3 - Spares and Repair Parts	552,169	547,316	-4,853
Activity 4 - Support Equipment and Facilities	146,428	124,650	-21,778
TOTAL	2,871,788	2,855,205	-16,583

EXPLANATION BY ACTIVITY

Activity 1 - Aircraft - The net decrease results from a Gramm-Rudman-Hollings sequestration (\$-2,872) and net below-threshold reprogramings (\$-17,746).

Activity 2 - Modification of Aircraft - The net increase results from a Gramm-Rudman-Hollings sequestration (\$-2,270), Army reprogramings for O&M, A Readiness (Revised) (\$-7,588), ASE Modifications (\$+11,900) and net below-threshold reprogramings (\$+28,624).

Activity 3 - Spares and Repair Parts - The net decrease results from a Gramm-Rudman-Hollings sequestration (\$-379) and net below-threshold reprogramings (\$-4,474).

Activity 4 - Support Equipment and Facilities - The net decrease results from a Gramm-Rudman-Hollings sequestration (\$-474), Army reprogramings for O&M, A Readiness (Revised) (\$-3,000), and ASE Modifications (\$-11,900) and net below-threshold reprogramings (\$-6,404).

COMPARISON OF FY 1989 FINANCING AS REFLECTED
IN THE FY 1990/1991 AMENDED BUDGET WITH FY 1989 FINANCING
AS SHOWN IN FY 1991 BUDGET ESTIMATE

	(In Thousands of Dollars)			
Appropriation	FY 1989 Financing Per FY 1990/1991 Amended Budget	FY 1989 Financing Per FY 1991 Budget Estimate	FY 1989 Increase (+) or Decrease (-)	
Aircraft Procurement, Army				
Program Requirements (Total)	2,932,088	2,908,458	-23,630	
Program Requirements (Service Account)	(2,871,788)	(2,855,205)	(-16,583)	
Program Requirements (Reimbursable)	(60,300)	(53,253)	(-7,047)	
Less:				
Anticipated reimbursements	-60,300	-53,253	+7,047	
Unobligated balance available to finance new budget plans	-44,800	-44,800	0	
Reprogramming from/to prior year budget plans	6,290	-5,360	-11,650	
Add:				
Unobligated balance transferred to other accounts	38,510	40,675	+2,165	
Unobligated balance available to finance subsequent year budget plans		8,333	+8,333	
Unobligated balance lapsing		7,147	+7,147	

BUDGET AUTHORITY

Appropriation

2,871,788 2,861,200 -10,588

EXPLANATION:

The reimbursable program (offsetting collections) decreased by \$11,000 because orders from Foreign Military Sales did not materialize as anticipated.

The reprogramming to/from prior year budget plans was adjusted: reduction pursuant to P.L. 99-177 plans represents Gramm-Rudman-Hollings sequestration of FY 1988 (\$-2,338) funds, FY 1988 United Nations Peacekeeping Transfer (\$-2,165) and FY 1988 unobligated balance lapsing (\$-7,147).

The unobligated balance transferred to other accounts resulted from an FY 1988 United Nations Peacekeeping Transfer (\$2,165).

The unobligated balance available to finance subsequent year budget plans resulted from Gramm-Rudman-Hollings sequestration to FY 1989 (\$5,995) and FY 1988 (\$2,338).

AIRCRAFT PROCUREMENT, ARMY

Section 4

Status of Aircraft Modification Programs

Status of Aircraft Modification Program

PY 1990 Modification Programs

Programs as of 30 November 1989 (\$ Millions)

<u>Program</u>	<u>Appropriated</u>	<u>Reprogramming</u>	<u>Total Program Value</u>	<u>Total Obligations</u>	<u>Total Disbursements</u>
Airplane, Surveillance, OV-1	15.2	-	15.2	-	-
RC-12D Mods	43.1	-	43.1	-	-
RU-21 Mods	1.5	-	1.5	-	-
Helicopter, Attack, AH-1S	5.9	-	5.9	5.6	-
AH-64 Mods	21.0	-	21.0	-	-
Helicopter, Cargo, CH-47 Mods	277.0	-	277.0	31.3	-
OH-58 Mods	23.2	-	23.2	-	-
Helicopter, Utility, UH-1	9.6	-	9.6	-	-
UH-60A Mods	40.9	-	40.9	-	-
Army Helicopter Improvement Program (AHIP)	195.0	-	195.0	-	-
ASE Mods	7.1	-	7.1	-	-
Aircraft 9WW	19.7	-	19.7	-	-
SOP Aircraft Mods	330.0	-	330.0	-	-
Tractor Heavy Mods	.8	-	.8	-	-

Status of Aircraft Modification Program

FY 1989 Modification Programs

Programs as of 30 November 1989 (\$ Millions)

<u>Program</u>	<u>Appropriated</u>	<u>Reprogramming</u>	<u>Total Program Value</u>	<u>Total Obligations</u>	<u>Total Disbursements</u>
Airplane, Surveillance, OV-1	6.2	9.9	16.1	15.6	-
Airplane, Reconnaissance, RC-12D	31.9	7.3	39.2	36.7	1.5
Airplane, Reconnaissance, RU-21H	7.5	-3.5	4.0	-	-
Helicopter, Attack, AH-1S	29.3	-5	28.8	28.8	8.1
AH-64 Mods	6.3	-4.1	2.2	-	-
Helicopter, Cargo, CH-47 Mods	246.3	1.2	247.5	243.1	10.6
Helicopter, Observation, OH-58	17.4	-	17.4	13.4	.8
UH-60A Mods	23.4	9.9	33.3	22.6	-
Army Helicopter Improvement Program (AHIP)	202.6	-	202.6	154.3	13.7
Airborne Avionics	2.7	1.8	4.5	4.2	.1
ASE Mods Close Combat	13.1	9.9	23.0	22.9	2.6
Aircraft 9WW	24.0	-	24.0	15.4	6.5
SOF Aircraft	120.5	-	120.5	61.5	7.2

Status of Aircraft Modification Program

FY 1988 Modification Programs

Programs as of 30 November 1989 (\$ Millions)

Program	Appropriated	Reprogramming	Total Program Value	Total Obligations	Total Disbursements
Airplane, Surveillance, OV-1	17.0	-	17.0	6.1	1.1
Airplane, Reconnaissance, RU-21H	3.2	-2.2	1.0	-	-
AH-64 Mods	62.2	4.4	66.6	46.5	14.8
Helicopter, Cargo, CH-47 Mods	226.9	.6	227.5	222.0	160.5
Helicopter, Observation, OH-58	27.0	5.9	33.1	31.1	18.8
Helicopter, Utility, UH-1	2.2	-1.7	.5	-	-
UH-60A Mods	30.9	10.0	40.9	32.7	5.3
Army Helicopter Improvement Program (AHIP)	160.1	.3	160.4	152.9	60.3
Airborne Avionics	1.0	7.0	8.0	.9	.5
ASE Mods Close Combat	.1	-.1	-	-	-
Aircraft 9WV	25.8	-	25.8	21.6	13.7
SOF Aircraft Mods	54.9	-	54.9	44.7	9.9

AIRCRAFT PROCUREMENT, ARMY

Section 5

Flight Simulator Procurement Program

Exhibit PB-32E

Exhibit P-43

FLIGHT SIMULATOR DATA SHEET
FY 1990/1991 Program

Simulator Model: AH-64 Combat Weapon Emergency Procedures Trainer

Aircraft System Supported: AH-64 APACHE

Description of Simulator: The Combat Weapon Emergency Procedures Trainer (CWEPT) consists of a full scale mock-up crew station for the pilot and copilot/gunner, electronically interconnected to both crew stations. This will provide the instructor a means to instruct and develop procedures as well as complete weaponization training for the aircrew. It is completely computerized to provide proper inputs. The CWEPT is capable of either providing automated training scenarios or allowing instructor/crew member interaction. The AH-64 CWEPT will enable AH-64 attack helicopter units to train pilots and copilots/gunners in cockpit procedures, weapon switchology, crew integration, and emergency procedures. Training on certain tasks and maneuvers is not possible in the aircraft because of the cost of ammunition and availability of laser ranges. Without the use of the CWEPT, AH-64 aircrews will have to train individual tasks in the Combat Mission Simulator (CMS) or the actual aircraft. This places an extra time restriction on both assets that could more effectively be transferred to the CWEPT. A cost avoidance will be realized in CWEPT versus CMS/Aircraft operating cost.

Development Status: Six production devices in addition to the prototype were planned in the Basis of Issue Plan. The production devices are similar to the prototype with all devices (visual systems and aircraft configuration) undergoing upgrades beginning in FY 1988 under a pre-planned product improvement program.

<u>Funding Data:</u> (\$ in millions)	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
Quantity	0	4	5
Procurement (APA)	\$0.0	\$12.3	\$12.9
RDTE	0	0	0
Total	\$0.0	\$12.3	\$12.9

Basis for FY 1990/1991 Request: In FY 1990, 4 CWEPTs will be procured; in FY 1991, 5 CWEPTs will be procured.

Contract Data: The FY 1990 award is scheduled for February 1991 with delivery in November 1993. The FY 1991 award is scheduled for February 1992 with delivery in November 1994.

EXHIBIT PB-32E

FLIGHT SIMULATOR DATA SHEET
FY 1990/1991 Program

Simulator Model: AH-64 Combat Mission Simulator

Aircraft System Supported: AH-64 APACHE

Description of Simulator: The prototype AH-64 Combat Mission Simulator will be designed to provide a training capability for flight and weapon delivery, normal and emergency procedures and sensor system operating tasks required in the operational design basis helicopter. The simulator will consist of pilot and copilot/gunner trainee modules, instructor modules, motion subsystems, visual subsystems and a computer complex. The pilot and copilot/gunner trainee modules will be replicas of the actual aircraft cockpits, and each will be mounted on a six degree freedom-of-motion base. The visual subsystem will approximate crew member video displays. Simulated imagery includes Forward Looking Infrared (FLIR), Day Television (DTV) and Direct View Optics (DVO). Pilot displays consist of the Integrated Helmet and Display Sight System Helmet Display Unit (IHADSS HDU) and a panel mounted Video Display Unit (VDU). Gunner displays include the IHADSS HDU, a target acquisition and designation sight Heads Down Display (HDD) and a TADS Heads Out Display (HOD). The simulator functions will be controlled from the instructor's station located behind each trainee module. The pilot and copilot/gunner will have the capability to train individually or may train as a team performing an integrated combat mission. One CMS will be procured in FY 1989.

Development Status: Development of the CMS was completed in FY 1988 at a cost of approximately \$84.0 million.

<u>Funding Data:</u> (\$ in millions)	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
Quantity	2	0	0
Procurement (APA)	\$37.8	0	0
RDTE	0	0	0
Total	\$37.8	0	0

Basis for FY 1990/1991 Request: No CMS will be procured in FY 1990/1991.

Contract Data: Contract was awarded in September 1989 for CMS #8; in December 1989 an option to that contract was exercised to procure CMS #9.

EXHIBIT PB-32E

FY 1991 BUDGET ESTIMATE

FLIGHT SIMULATOR AND OTHER AIRCRAFT TRAINING EQUIPMENT

EXHIBIT P-43

(Dollars in Millions)

APPROPRIATION: Aircraft Procurement, Army

<u>Weapon System</u>	<u>Equipment Nomenclature</u>	<u>P-1 Line Item</u>	<u>FY 1989 Qty/Amount</u>	<u>FY1990 Qty/Amount</u>	<u>FY 1991 Qty/Amount</u>
AH-64 (2B40)(SSN A09000)	CMS	4	2/37.8		
AH-64 (2B40)(SSN A09000)	CVEPT	4		4/12.3	5/12.9