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Program Acquisition Costs by Weapon System



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Department of Defense Budget
For Fiscal Year 1994

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DEPARTMENT OF DEFENSE
 FY 1994 PRESIDENT'S BUDGET
 PROGRAM ACQUISITION COSTS
 (\$ in Millions)

<u>AIRCRAFT</u>		<u>FY 1992</u>	<u>FY 1993</u>	<u>FY 1994</u>	<u>Page No.</u>
<u>Army</u>					
AH-64	Attack Helicopter	207.0	169.0	53.3	1
CH-47	Modernization	282.9	35.6	15.4	2
OH-58D	Armed OH-58D	359.6	332.7	147.7	3
RAH-66	COMANCHE	514.5	395.2	367.1	4
---	LONGBOW	248.6	290.0	278.0	5
UH-60L	BLACKHAWK	507.4	419.2	419.1	6
<u>Navy</u>					
A/F-X	Medium Attack Aircraft	-	155.9	399.2	7
AH-1W	SEA COBRA Helicopter	227.6	134.3	149.4	8
AV-8B	HARRIER	289.5	36.5	168.1	9
CH/MH-53E	SUPER STALLION	505.4	507.5	303.1	10
E-2C	HAWKEYE	535.3	101.2	76.8	11
EA-6B	PROWLER	140.5	586.5	123.6	12
F-14D	TOMCAT	313.6	286.9	72.0	13
F/A-18C/D	HORNET	2,180.6	1,400.4	1,900.7	14
F/A-18E/F	HORNET	350.1	843.1	1,414.0	15
HH-60H	Combat and Search and Rescue Helicopter	2.5	116.5	145.3	16
SH-60B	LAMPS MK III	306.1	276.5	271.0	17
SH-60F	CARRIER ASW Helicopter	274.4	212.7	224.3	18
T-45	GOSHAWK	415.8	344.5	340.3	19
V-22	OSPREY	758.7	714.4	77.6	20
<u>Air Force</u>					
B-2	Advanced Technology Bomber	3,845.6	3,899.6	1,723.4	21
C-17	Airlift Aircraft	2,145.5	2,241.5	2,573.3	22
C-130H	HERCULES	394.0	409.9	54.9	23
CAP	Civil Air Patrol	1.9	2.6	2.6	24
E-8A	Joint STARS	463.5	932.3	728.6	25
EFS	Enhanced Flight Screening	14.9	13.2	15.3	26
F-15E	EAGLE	820.7	93.0	125.0	27
F-16	FALCON	1,385.3	821.9	913.6	28
F-22	Advanced Tactical Fighter (ATF)	1,606.8	1,925.0	2,252.0	29
JPATS	Joint Primary Aircraft Training System	-	-	41.5	30
KC-135	Re-engining/Modernization	557.9	100.1	-	31
KC-135E	Re-engining/Modernization	-	235.2	-	32
NH-60G	PAVE HAWK Helicopter	27.9	31.1	.5	33

DEPARTMENT OF DEFENSE
 FY 1994 PRESIDENT'S BUDGET
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	<u>AIRCRAFT</u>	<u>FY 1992</u>	<u>FY 1993</u>	<u>FY 1994</u>	<u>Page No.</u>
NASP	National Aerospace Plane	161.5	141.2	43.3	34
T-1A	Tanker-Transport Training System (TTTS)	160.8	172.4	164.2	35
<u>Special Operations Forces</u>					
AC-130U	SPECTRE Gunship	104.6	23.0	34.3	36
MC-130H	COMBAT TALON II	116.3	53.5	24.0	37
MH-60K	Rotary Wing Aircraft	139.8	7.2	13.6	39
MH-60L	Rotary Wing Aircraft	139.8	7.2	13.6	40
<u>MISSILES</u>					
<u>Army</u>					
AAWS-M	JAVELIN	118.3	114.1	252.2	41
ATACMS	Army Tactical Missile System	177.4	196.1	178.4	42
AVENGER 2/	Surface-to-Air Missile	186.2	170.6	157.2	43
BAT	Anti-Armor Missile	118.3	114.8	117.0	44
HELLFIRE 3/	Anti-Armor Missile	33.0	87.6	95.6	45
MLRS	Multiple Launch Rocket System	205.0	295.7	279.7	46
PATRIOT	Air Defense Missile	200.9	65.4	93.1	47
TOW-2 2/	Anti-tank/Assault Missile	233.7	182.0	62.8	48
<u>Navy</u>					
ANRAAM 4/	Advanced Medium Range Air-to-Air Missile	203.4	125.0	75.6	49
HARM 4/	High Speed Anti-Radiation Missile	221.6	31.3	4.6	50
HARPOON	Anti-ship and Land-attack Cruise Missile	167.0	89.5	117.6	51
HELLFIRE 3/	Anti-Armor Missile	-	49.9	83.9	52
PENGUIN	Air-to-Surface Anti-ship	46.2	-	-	53
RAM	Rolling Airframe Missile	14.0	17.7	68.2	54
Standard 5	Air Defense Missile	335.9	309.9	285.1	55
TOMAHAWK	Cruise Missile	465.9	443.6	295.4	56
TRIDENT II	Submarine Launched Ballistic Missile	1,138.9	1,030.4	1,175.0	57
<u>Marine Corps</u>					
AVENGER 2/	Surface-to-Air Missile	12.9	28.1	19.2	58
TOW-2 2/	Anti-tank/Assault Missile	30.0	-	-	59

DEPARTMENT OF DEFENSE
 FY 1994 PRESIDENT'S BUDGET
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	<u>MISSILES</u>	<u>FY 1992</u>	<u>FY 1993</u>	<u>FY 1994</u>	<u>Page No.</u>
<u>Air Force</u>					
ACM	Advanced Cruise Missile	231.3	119.8	84.8	60
AGM-130	Air-to-Ground Missile	93.5	82.9	75.9	61
AMRAAM 4/	Advanced Medium Range Air-to-Air Missile	576.3	663.3	579.7	62
HARM 4/	High Speed Anti-Radiation Missile	110.3	215.1	-	63
HAVE NAP	Air-Ground Missile	37.1	23.6	-	64
---	PEACEKEEPER	123.3	27.1	-	65
<u>DoD</u>					
TSSAM 1/	Tri-Service Standoff Attack Missile	-	-	629.1	66
<u>VESSELS</u>					
<u>Navy</u>					
AGOR/TAGS	Oceanographic Research Ship	155.2	5.7	113.5	67
AOE	Fast Combat Support Ship	223.3	324.6	10.6	68
	CENTURION	23.0	90.8	449.2	69
CVN-68	Nuclear Aircraft Carrier	194.6	861.4	22.5	70
DDG-51	AEGIS Destroyer	4,108.4	3,495.2	2,857.6	71
LCAC	Landing Craft Air Cushion	412.0	4.6	4.0	72
LHD-1	Amphibious Assault	25.9	339.3	910.1	73
LSD-CV	Landing Dock Ship Cargo Variant	25.0	308.7	23.8	74
MCS(C)	Mine Countermeasures Support ship	3.6	7.0	133.3	75
MHC	Coastal Minehunter	319.7	253.5	28.7	76
<u>Special Operations Forces</u>					
PC-1	Patrol Coastal	65.0	8.6	26.3	77
<u>TRACKED COMBAT VEHICLES</u>					
<u>Army</u>					
ASN	Armored System Modernization	291.5	314.1	148.3	78
BFVS	Bradley Fighting Vehicle Systems	107.1	135.9	79.7	79
BFVS Upgrade	Bradley Upgrade	-	125.0	238.0	80
M1A1	ABRAMS Tank	106.6	63.5	42.9	81
M1 Upgrade	ABRAMS Tank Upgrade	296.8	162.5	94.3	82
M109	Howitzer Cannon	127.3	125.0	173.6	83

DEPARTMENT OF DEFENSE
 FY 1994 PRESIDENT'S BUDGET
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	<u>OTHER PROCUREMENT</u>	<u>FY 1992</u>	<u>FY 1993</u>	<u>FY 1994</u>	<u>Page No.</u>
<u>Army</u>					
PLS	Palletized Load System	101.4	312.3	466.4	84
FMTV	Family of Medium Tactical Vehicles	188.8	254.6	31.8	85
HMMWV 2/	High Mobility Multipurpose Wheeled Vehicle	278.4	226.2	247.2	86
SADARM	Sense and Destroy Armor	148.2	92.7	118.7	87
SINCGARS 2/	Single Channel Ground Airborne Radio System	274.3	223.8	356.2	88
<u>Navy</u>					
---	ASW Targets	17.1	39.2	24.6	89
FLTSATCOM	Fleet Satellite Communications	283.1	262.4	159.8	90
MK-48	Advanced Capability (ADCAP) Torpedo	237.2	201.0	130.5	91
MK-50	Advanced Lightweight Torpedo (ALWT)	282.7	269.4	23.8	92
--- 4/	Precision Guided Munitions	58.0	88.0	90.9	93
<u>Marine Corps</u>					
HMMWV 2/	High Mobility Multipurpose Wheeled Vehicle	41.8	47.3	-	94
SINCGARS 2/	Single Channel Ground Airborne Radio System	52.4	58.9	46.6	95
<u>Air Force</u>					
CNU	Cheyenne Mountain Upgrade	158.3	183.7	167.2	96
DNSP	Defense Meteorological Satellite Program	134.3	52.8	61.4	97
DSCS	Defense Satellite Communications System	69.3	38.0	57.9	98
DSP	Defense Support Program	115.8	336.6	525.9	99
MLV	Medium Launch Vehicles	286.7	306.4	203.9	100
---	MILSTAR	1,042.4	1,138.6	973.2	101
NAVSTAR GPS	NAVSTAR Global Positioning System	353.1	230.5	207.0	102
---	Precision Guided Munitions	-	30.1	112.4	103
SPW 4/	Sensor Fuzed Weapon	108.7	17.7	89.5	104
	Space Boosters	428.2	490.2	801.3	105
	Spacelifter	48.7	9.4	53.9	106

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	<u>OTHER PROCUREMENT</u>	<u>FY 1992</u>	<u>FY 1993</u>	<u>FY 1994</u>	<u>Page No.</u>
<u>DoD</u>					
<u>LANDSAT</u>	Land Remote Sensing Satellite System	-	84.3	204.8	107
<u>SDI</u>	Strategic Defense Initiative	3,126.6	2,672.9	1,953.1	108
<u>TMD</u>	Tactical Missile Defense	810.3	1,102.5	1,807.4	109
<u>UAV</u>	Unmanned Aerial Vehicles	229.1	271.4	256.8	110

LEGEND FOR FOOTNOTES:

- 1/ Army, Navy and Air Force funding involved.
- 2/ Army and Marine Corps funding involved.
- 3/ Army and Navy funding involved.
- 4/ Navy and Air Force funding involved.

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AIRCRAFT PROGRAMS
ARMY

AH-64 ATTACK HELICOPTER

Description: The AH-64 is a twin engine helicopter designed and equipped for the tank killing role. Manned by a crew of 2, the AH-64 will have a speed of approximately 150 knots and a mission endurance of 1.8 hours. Its ordnance consists of up to 16 HELLFIRE laser guided antitank missiles, 1200 rounds of 30mm cannon and 76 2.75-inch rockets. The crew will be able to navigate and acquire targets day or night and in adverse weather using TV and infrared sensors. McDonnell Douglas Helicopter Company, Mesa, AZ is the prime contractor. General Electric, Lynn, MA builds the engines.

Mission: The AH-64 will be integrated with maneuver and fire plans of the combined arms team and has the primary antiarmor mission. The AH-64 is the Army's primary attack helicopter.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	204.0	(-)	146.6	(-)	17.6
Initial Spares		<u> -</u>		<u> 22.4</u>		<u> 35.7</u>
Subtotal		204.0		169.0		53.3
RDT&E		-		-		-
Military Construction		<u> 3.0</u>		<u> -</u>		<u> -</u>
TOTAL		207.0		169.0		53.3

AIRCRAFT PROGRAMS
ARMY

CH-47 MODERNIZATION

Description: This modernization program provides for the development, testing and remanufacture of CH-47 helicopters. They will have new transmissions, rotor blades, hydraulics, electrical systems, auxiliary power units, flight control systems and two additional cargo hooks. Integration of these changes significantly improves safety, survivability, productivity, reliability, and maintainability. Additionally, they will extend the life of the CH-47 fleet beyond the year 2000 at a much lower cost than a new helicopter development and procurement program. The prime contractor is Boeing Vertol of Philadelphia, PA.

Mission: The mission of the CH-47 is to provide tactical transport of artillery, engineering equipment, bulk cargo and personnel. It also provides a capability for recovery of downed aircraft and for medical evacuation of casualties.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	282.9	(-)	14.9	(-)	15.4
Initial Spares		<u> -</u>		<u> 20.7</u>		<u> -</u>
Subtotal		282.9		35.6		15.4
RDT&E		-		-		-
Military Construction		<u> -</u>		<u> -</u>		<u> -</u>
TOTAL		282.9		35.6		15.4

**AIRCRAFT PROGRAMS
ARMY**

ARMED OH-58D (KIOWA WARRIOR)

Description: The Armed OH-58D is a single engine, 4-bladed main rotor helicopter that has been modified with television, Thermal Imaging System (TIS), and laser rangefinder-designator incorporated into a Mast-Mounted Sight (MMS). Designed to operate autonomously, the Kiowa Warrior provides command and control, target acquisition and target designation under day, night, and adverse weather conditions. It provides adjustment of conventional artillery, as well as spotting and laser designation for precision guided munitions. In FY 1991 the fleet began to be retrofitted with Air-to-Air and Air-to-Ground weapons. The prime contractor is Bell Helicopter of Fort Worth, TX and the engines are produced by Detroit Diesel Allison of Indianapolis, IN.

Mission: The Kiowa Warrior provides commanders with a survivable, real-time combat information, command and control reconnaissance, security, aerial observation, and target acquisition-designation system to operate with attack helicopter, air cavalry, and field artillery units during day, night, and other reduced visibility conditions.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	350.4	(-)	319.6	(-)	145.5
Initial Spares		<u> -</u>		<u> 5.4</u>		<u> 2.2</u>
Subtotal		350.4		325.0		147.7
RDY&B		9.2		7.7		-
Military Construction		<u> -</u>		<u> -</u>		<u> -</u>
TOTAL		359.6		332.7		147.7

AIRCRAFT PROGRAMS
ARMY

RAH-66 COMANCHE HELICOPTER

Description: The RAH-66 Comanche Helicopter program will develop a light helicopter series which will replace the Army's rapidly aging fleet of OH-58 and AH-1 aircraft. The development program provides three aircraft prototypes and full-up proof of principle for critical components, including avionics, upgraded T-800 engines, and the Longbow system.

Mission: The RAH-66 will be used for observation and attack missions.

Program Acquisition Costs
(\$ Millions)

	FY 1992		FY 1993		FY 1994	
	Qty	Amt	Qty	Amt	Qty	Amt
Procurement						
Item	(-)	-	(-)	-	(-)	-
Initial Spares		—		—		—
Subtotal		-		-		-
RDT&E		514.5		395.2		367.1
Military Construction		—		—		—
TOTAL		514.5		395.2		367.1

AIRCRAFT PROGRAMS
ARMY

LONGBOW

Description: Longbow consists of a mast mounted Fire Control Radar (FCR) which will be integrated into the AH-64 airframe, and a radio frequency (RF) seeker in a HELLFIRE missile. Work is being accomplished by a joint venture (JV) team comprised of two companies, Martin Marietta Corporation, Orlando, Florida and Westinghouse Electronics Corporation, Baltimore, Maryland.

Mission: Longbow will provide the AH-64 and the RAH-66 a fire and forget HELLFIRE capability, greatly increasing weapon system effectiveness and aircraft survivability.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>	<u>FY 1993</u>	<u>FY 1994</u>
Procurement		-	
Item	-	-	-
Initial Spares	-	-	-
	-----	-----	-----
Subtotal	-	-	-
RDT&E	248.6	290.0	278.0
Military Construction	-	-	-
	-----	-----	-----
TOTAL	248.6	290.0	278.0

AIRCRAFT PROGRAMS
ARMY

UH-60L UTILITY HELICOPTER (BLACKHAWK)

Description: The BLACKHAWK is a twin engine, single-rotor helicopter that is designed to carry a crew of three and a combat equipped squad of eleven or an equal cargo load. It is also capable of carrying external loads of up to 8,000 lbs. The prime contractor is Sikorsky Aircraft of Stratford, CT.

Mission: The BLACKHAWK provides a highly maneuverable, air transportable, troop carrying helicopter for all intensities of conflicts, without regard to geographical location or environmental conditions. It moves troops, equipment and supplies into combat and performs aeromedical evacuation and multiple functions in support of the Army's air mobility doctrine for employment of ground forces.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(60)	507.4	(60)	405.0*	(60)	408.3
Initial Spares		—		<u>14.2</u>		<u>10.8</u>
Subtotal		507.4		419.2		419.1
RDTE		-		-		-
Military Construction		—		—		—
TOTAL		507.4		419.2		419.1

* Includes 8 helicopters appropriated in National Guard and Reserve Equipment, Defense

**AIRCRAFT PROGRAMS
NAVY**

A/F-X

Description: The A/F-X will be the Navy's next carrier-based medium attack aircraft, replacing the A-6E INTRUDER. Five concept exploration and definition contracts have been awarded to teams headed by General Dynamics, Fort Worth, TX; Grumman, Bethpage, NY; Lockheed, Marietta, GA; McDonnell Douglas, St. Louis, MO; and Rockwell, Los Angeles, CA.

Mission: The mission of the A/F-X is to fulfill the Department of the Navy requirement for an all-weather medium attack aircraft with superior range, survivability, and reliability.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	-	(-)	-	(-)	-
RDT&E		-		155.9		399.2
Military Construction		-		-		-
TOTAL		-		155.9		399.2

AIRCRAFT PROGRAMS
NAVY

AH-1W SEA COBRA HELICOPTER

Description: The AH-1W is a tandem seat attack helicopter whose armament includes the SIDEWINDER, TOW and HELLFIRE missiles, a 20mm turret gun and a wide variety of forward firing and dropable external munitions. The prime contractor is Textron, Inc., Bell Helicopter Division of Fort Worth, TX. Engines are produced by General Electric Company, Aircraft Engine Division of Lynn, MA.

Mission: The AH-1W is a helicopter gunship whose mission is to escort and protect troop assault helicopters, fire suppression at landing zones during the assault phase and fire support during ground escort operations. The TOW and HELLFIRE missiles also provide an anti-armor capability.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(20)	211.3*	(12)	122.2	(12)	143.3
Initial Spares		<u>5.2</u>		<u>2.5</u>		<u>.5</u>
Subtotal		216.5		124.7		143.8
RDT&E		11.1		9.6		5.6
Military Construction		<u>-</u>		<u>-</u>		<u>-</u>
TOTAL		227.6		134.3		149.4

*Includes 71.0 million for 6 aircraft appropriated in National Guard & Reserve Equipment, Defense.

AIRCRAFT PROGRAMS
NAVY

AV-8B (V/STOL) HARRIER

Description: The AV-8B Harrier is a single seat, single-engine, transonic jet aircraft capable of Vertical/Short Takeoff and Landing (V/STOL). This V/STOL capability, combined with high performance and combat effectiveness, provides the Marine Corps forces with a quick reaction weapon system. Prime contractors are McDonnell Douglas Corporation of St. Louis, MO on the airframe, Rolls Royce, Ltd. of Bristol, England on the engine, and British Aerospace of Kingston, England on the aft fuselage. The last year of new production for the AV-8B aircraft for the U.S. is FY 1992. Beginning in FY 1994, existing AV-8B aircraft will be remanufactured to an improved configuration for increased operational capability.

Mission: The mission of the AV-8B aircraft is to provide close air support for Marine Corps forces in amphibious operations, and direct support of ground forces from austere forward bases.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(6)	270.0	(-)	24.8	(4)	144.6
Initial Spares		<u>10.4</u>		<u>-</u>		<u>5.2</u>
Subtotal		280.4		24.8		149.8
RDT&E		9.1		11.7		18.3
Military Construction		<u>-</u>		<u>-</u>		<u>-</u>
TOTAL		289.5		36.5		168.1

AIRCRAFT PROGRAMS
NAVY

CH/MH-53E SUPER STALLION

Description: The CH/MH-53E is a three-engine, shipboard-compatible, Navy and Marine Corps heavy-lift helicopter. Prime contractors are United Technologies Corporation, Sikorsky Aircraft Division of Stratford, CT for the airframe and General Electric Company, Aircraft Engine Division of Lynn, MA for the engine.

Mission: The missions of the CH/MH-53E helicopter are to carry heavy cargo/troops in Marine Corps and Navy operations, including Vertical On-Board Delivery (VOD) for fleet replenishment, Airborne Mine Countermeasures (AMCM), and recovery of downed or damaged aircraft and equipment.

Program Acquisition Costs
(\$ Millions)

	FY 1992		FY 1993		FY 1994	
	Qty	Amt	Qty	Amt	Qty	Amt
Procurement						
Item	(18)	494.0*	(20)	494.6	(12)	296.9
Initial Spares		<u>2.6</u>		<u>1.3</u>		<u>.6</u>
Subtotal		496.6		495.9		297.5
RDT&E		8.8		11.6		5.6
Military Construction		<u>-</u>		<u>-</u>		<u>-</u>
TOTAL		505.4		507.5		303.1

* Includes \$129.0 million for 2 aircraft appropriated in National Guard and Reserve Equipment, Defense.

AIRCRAFT PROGRAMS
NAVY

E-2C HAWKEYE

Description: The E-2C Hawkeye is an all weather, carrier-based airborne early warning aircraft. Prime contractors are Grumman Corporation of Bethpage, Long Island, NY for the airframe and General Motors Corporation, Allison Division, Indianapolis, IN for the engine. The last year of new production is FY 1992.

Mission: The missions of the E-2C aircraft are airborne early warning, strike and control, radar surveillance, search and rescue assistance, communication relay and automatic tactical data exchange.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(6)	499.2	(-)	94.8	(-)	27.9
Initial Spares		<u>29.8</u>		<u>-</u>		<u>-</u>
Subtotal		529.0		94.8		27.9
RDT&E		6.3		6.4		48.9
Military Construction		<u>-</u>		<u>-</u>		<u>-</u>
TOTAL		535.3		101.2		76.8

**AIRCRAFT PROGRAMS
NAVY**

EA-6B PROWLER

Description: The EA-6B Prowler is a four seat, twin-engine derivative of the A-6 attack aircraft that is equipped with a computer-controlled electronic surveillance and control system and high power jamming transmitters. Beginning in FY 1993, existing EA-6B aircraft will be remanufactured into the more capable Advanced Capability (ADVCAP) configuration. Prime contractors are Grumman Corporation, Bethpage, Long Island, NY on the airframe and United Technologies Corporation, Pratt Whitney Division of East Hartford, CT on the engine.

Mission: The EA-6B aircraft provides all-weather Electronic Countermeasures (ECM) in support of Navy and Marine Corps strike forces.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	115.1	(3)	482.8	(-)	77.6
Initial Spares		<u>1.7</u>		<u>32.9</u>		<u>-</u>
Subtotal		116.8		515.7		77.6
RDT&E		23.7		70.8		246.0
Military Construction		<u>-</u>		<u>-</u>		<u>-</u>
TOTAL		140.5		586.5		123.6

AIRCRAFT PROGRAMS
NAVY

F-14D TOMCAT

Description: The F-14D Tomcat is a carrier-based, two-seat, twin-engine, high-performance, fleet air defense fighter. Funding for the development of software upgrades and other system improvements continues in FYs 1992-1993. Prime contractors for the F-14D are Grumman Corporation of Bethpage, Long Island, NY for the airframe and General Electric Company, Aircraft Engine Division of Cincinnati, OH for the engines. The last F-14D remanufactured aircraft were funded in FY 1991.

Mission: The mission of the F-14D aircraft is that of an air superiority fighter and a fleet air defense interceptor. Limited air-to-ground capabilities will be retrofitted into the F-14D in future years.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	175.5	(-)	141.1	(-)	-
Initial Spares		<u>23.0</u>		<u>13.6</u>		<u>-</u>
Subtotal		198.5		154.7		-
RDT&E		115.1		120.1		72.0
Military Construction		<u>-</u>		<u>12.1</u>		<u>-</u>
TOTAL		313.6		286.9		72.0

**AIRCRAFT PROGRAMS
NAVY**

F/A-18C/D HORNET

Description: The F/A-18C/D is a twin-engine, high-performance, multimission, tactical aircraft, for deployment in Navy and Marine Corps fighter and attack squadrons, replacing the F-4 and A-7 aircraft. Prime contractors are McDonnell Douglas Corporation of St. Louis, MO for the airframe and General Electric Company, Aircraft Engine Division of Lynn, MA for the engines. Northrop Corporation, Hawthorne, CA is a major subcontractor.

Mission: The primary roles for the F/A-18 include fighter escort and fleet air defense. The aircraft is also used as a strike fighter and to conduct interdiction and close air support missions.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(48)	2,036.8	(36)	1,253.5	(36)	1,745.3
Initial Spares		<u>75.2</u>		<u>88.0</u>		<u>83.9</u>
Subtotal		2,112.0		1,341.5		1,829.2
RDT&E		68.6		52.4		71.5
Military Construction		<u>-</u>		<u>6.5</u>		<u>-</u>
TOTAL		2,180.6		1,400.4		1,900.7

**AIRCRAFT PROGRAMS
NAVY**

F/A-18E/F HORNET

Description: The F/A-18E/F will be a twin-engine, high-performance, multimission, tactical aircraft, for deployment in Navy and Marine Corps fighter and attack squadrons. Funding for the development of the F/A-18E/F began in FY 1991. The F/A-18E/F will possess enhanced range, payload and survivability features compared with the current C/D model aircraft. Prime contractors are McDonnell Douglas Corporation of St. Louis, MO for the airframe and General Electric Company, Aircraft Engine Division of Lynn, MA for the engines. Northrop Corporation, Hawthorne, CA is a major subcontractor.

Mission: The primary roles for the F/A-18 include fighter escort and fleet air defense. The aircraft also will be used as a strike fighter and to conduct interdiction and close air support missions.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	-	(-)	-	(-)	-
Initial Spares		_____ -		_____ -		_____ -
Subtotal		-		-		-
RDT&E		350.1		843.1		1,414.0
Military Construction		_____ -		_____ -		_____ -
TOTAL		350.1		843.1		1,414.0

AIRCRAFT PROGRAMS
NAVY

HH-60H

Description: The HH-60H is a combat and search and rescue helicopter. This helicopter has a maximum gross weight of about 20,000 pounds, utilizes a crew of three and has seating for up to 11 troops. United Technologies Corporation, Sikorsky Aircraft Division of Stratford, CT is the airframe contractor and General Electric Company, Aircraft Engine Division of Lynn, MA is the engine contractor.

Mission: The HH-60's primary mission is combat and search and rescue with secondary missions of Helicopter Light Attack (HLA) and Naval Special Warfare (NSW).

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	-	(7)	116.5	(9)	144.1
Initial Spares		<u>2.5</u>		<u>-</u>		<u>1.2</u>
Subtotal		2.5		116.5		145.3
RDT&E		-		-		-
Military Construction		<u>-</u>		<u>-</u>		<u>-</u>
TOTAL		2.5		116.5		145.3

AIRCRAFT PROGRAMS
NAVY

SH-60B LAMPS MK III

Description: LAMPS MK III (Light Airborne Multi-Purpose System) is a computer integrated ship helicopter system that increases the effectiveness of surface combatants. The air vehicle is the SH-60B helicopter which provides a remote platform for deployment of sonobouys and torpedoes, processing of sensor information and an elevated platform for radar and Electronic Warfare Support Measures (ESM). International Business Machines (IBM), Federal Sector Division of Owego, NY is the system contractor; United Technologies Corporation, Sikorsky Aircraft Division of Stratford, CT is the air vehicle contractor; and General Electric Company, Aircraft Engine Division of Lynn, MA is the engine contractor.

Mission: The primary mission of the SH-60B LAMPS MK III is anti-submarine warfare. Secondary missions include ship surveillance and targeting, search and rescue, medical evacuation and vertical replenishment.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(13)	266.7	(12)	234.5	(7)	216.4
Initial Spares		<u>5.6</u>		<u>7.6</u>		<u>9.3</u>
Subtotal		272.3		242.1		225.7
RDT&E		33.8		34.4		45.3
Military Construction		<u>-</u>		<u>-</u>		<u>-</u>
TOTAL		306.1		276.5		271.0

**AIRCRAFT PROGRAMS
NAVY**

SH-60F CARRIER ASW HELICOPTER

Description: The SH-60F Carrier ASW helicopter is a derivative of the SH-60B (LAMPS MK III helicopter). It provides quick reaction inner-zone protection using a tethered sonar. This helicopter replaces the aging SH-3H. United Technologies Corporation, Sikorsky Aircraft Division of Stratford, CT is the airframe contractor and General Electric Company, Aircraft Engine Division of Lynn, MA is the engine contractor.

Mission: The SH-60F Carrier ASW helicopter weapon system will provide ASW protection in the inner-zone of the aircraft carrier battle group (CVBG). Other primary missions are mobility and command, control, and communications. Secondary missions are logistics, fleet support operations (including plane guard, MEDEVAC, and search and rescue), non-combat operations, and surveillance.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(12)	242.0	(9)	172.1	(8)	186.5
Initial Spares		<u>12.9</u>		<u>2.0</u>		<u>12.1</u>
Subtotal		254.9		174.1		198.6
RDT&E		19.5		38.6		25.7
Military Construction		<u>-</u>		<u>-</u>		<u>-</u>
TOTAL		274.4		212.7		224.3

AIRCRAFT PROGRAMS
NAVY

T-45 GOSHAWK

Description: The T-45 GOSHAWK is a derivative of the British Aerospace HAWK aircraft. The T-45 Training System will integrate aircraft, simulators, academics, and a training management system into a cost-effective replacement system for current intermediate and advanced phase training aircraft. The prime contractor is McDonnell Douglas, St. Louis, MO; British Aerospace of Kingston, England provides the center and aft fuselage; Rolls Royce, Ltd of Bristol, England provides the engine.

Mission: The T-45 will provide undergraduate jet pilot training for Navy and Marine Corps aviators.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(12)	340.7	(12)	262.6	(12)	290.0
Initial Spares		<u>27.0</u>		<u>22.6</u>		<u>21.4</u>
Subtotal		367.7		285.2		311.4
RDT&E		48.1		49.2		28.9
Military Construction		<u>-</u>		<u>10.1</u>		<u>-</u>
TOTAL		415.8		344.5		340.3

AIRCRAFT PROGRAMS
NAVY

V-22 OSPREY

Description: The V-22 Osprey is a tilt-rotor, vertical take-off and landing aircraft. The contractors are Textron, Inc., Bell Helicopter Division, Fort Worth, TX and Boeing Vertol, Philadelphia, PA for the air vehicles; and General Motors Corporation, Allison Division, Indianapolis, IN for the engine.

Mission: The missions of the V-22 include airborne Assault, Vertical Lift, Combat Search and Rescue, and Special Operations.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	-	-	-	-	-
Initial Spares		_____ -		_____ -		_____ -
Subtotal		-		-		-
RDT&E		758.7		714.4		77.6
Military Construction		_____ -		_____ -		_____ -
TOTAL		758.7		714.4		77.6

AIRCRAFT PROGRAMS
AIR FORCE

B-2 Advanced Technology Bomber

Description: The B-2 is an intercontinental bomber that employs low observable technology to achieve its mission. The bomber is an all-wing, two-place aircraft with twin weapon bays. Four General Electric F-118-GE100 aircraft engines power the B-2. The F-118 engine is a derivative of the F-100 engine, currently used in the F-16 fighter and is in the 19000 lb thrust class. Northrop Corporation, Pico Rivera, CA is the prime contractor for the B-2; the engines are manufactured by General Electric, Evendale, OH.

Mission: The primary mission of the B-2 is to enable any theater commander to hold at risk and, if necessary, attack an enemy's warmaking potential, especially those time critical targets which, if not destroyed in the first hours or days of a conflict, would allow unacceptable damage to be inflicted on the friendly side. The B-2 will also retain its potential as a nuclear bomber, reinforcing the deterrence of nuclear conflict.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(1)	2,298.2	(4)	2,660.1	(-)	604.3
Initial Spares		_____		_____		285.1
Subtotal		2,298.2		2,660.1		889.4
RDT&E		1,522.3		1,189.3		790.5
Military Construction		25.1		50.2		43.5
TOTAL		3,845.6		3,899.6		1,723.4

AIRCRAFT PROGRAMS
AIR FORCE

C-17 AIRLIFT AIRCRAFT

Description: The C-17 program is a wide body, four engine, turbofan aircraft that will address the need to modernize the U.S. strategic airlift capability. The C-17 will be capable of performing the entire spectrum of airlift missions and is specifically designed to effectively and efficiently operate in both the intertheater and intratheater environments. The major contractors are Douglas Aircraft Company, Long Beach, CA (Airframe) and Pratt-Whitney, East Hartford, CT (Engine).

Mission: The C-17 will provide outside intratheater airland/airdrop capability not available in the current airlift force and replace C-130As and C-141s as they begin to leave the airlift force in the 1990's.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>	<u>FY 1993</u>	<u>FY 1994</u>
	<u>Qty</u> <u>Amt</u>	<u>Qty</u> <u>Amt</u>	<u>Qty</u> <u>Amt</u>
Procurement			
Item	(4) 1,696.3	(6) 2,041.2	(6) 2,318.3
Initial Spares	<u>116.2</u>	<u>-</u>	<u>60.0</u>
Subtotal	1,812.5	2,041.2	2,378.3
FDT&E	256.9	168.7	179.8
Military Construction	<u>76.1</u>	<u>31.6</u>	<u>15.2</u>
TOTAL	2,145.5	2,241.5	2,573.3

**AIRCRAFT PROGRAMS
AIR FORCE**

C-130H HERCULES

Description: The C-130H is a medium size tactical transport aircraft which has a number of missions including deployment and redeployment of troops and/or supplies within and between command areas in a theater of operation, aeromedical evacuation, air logistic support and augmentation of strategic airlift forces. These aircraft are being procured for active Air Force and Army/Navy/Air Force Reserve and Guard Units. The prime contractor is Lockheed Corp., Marietta, GA.

Mission: The mission of the C-130H is the immediate and responsive air movement and delivery of combat troops and supplies directly into objective areas through extraction, airdrop, or other delivery techniques; and the air logistic support of all theater forces, including those engaged in combat operations.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(9)	381.4	(9)	396.4	(-)	53.8
Initial Spares		<u>12.6</u>		<u>11.0</u>		<u>1.1</u>
Subtotal		394.0		407.4		54.9
RDT&E		-		-		-
Military Construction		<u>-</u>		<u>2.5</u>		<u>-</u>
TOTAL		394.0		409.9		54.9

**AIRCRAFT PROGRAMS
AIR FORCE**

CIVIL AIR PATROL (CAP) AIRCRAFT

Description: The Civil Air Patrol aircraft will be new or used propeller-driven commercial aircraft to be provided to the Civil Air Patrol by the Air Force. When originally established, the Civil Air Patrol was to receive its operating equipment from excess inventory in the Department of Defense. In recent years, the inventory of propeller-driven aircraft in the Department of Defense has been decreasing, allowing for fewer aircraft for modernization of the CAP. The Congress, in recognition of this fact, has permitted the Air Force to procure used or new aircraft specifically for transfer to the CAP.

Mission: The CAP aircraft will be utilized by the CAP to perform its mission of emergency search and rescue services and to provide aeronautical education for its members and the public.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(27)	1.9	(27)	2.6	(27)	2.6
Initial Spares		-		-		-
Subtotal		1.9		2.6		2.6
RDT&E		-		-		-
Military Construction		-		-		-
TOTAL		1.9		2.6		2.6

**AIRCRAFT PROGRAMS
AIR FORCE**

E-8A JOINT STARS

Description: The E-8A Joint Surveillance Target Attack Radar System (Joint STARS) aircraft will be a Boeing 707 class aircraft modified to operate a target attack radar system to detect and track both moving and fixed enemy ground targets. Grumman Corporation, Melbourne, FL is the prime contractor.

Mission: Joint STARS will provide information to delay/disrupt/destroy mobile targets in the enemy second echelon.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	125.4	(2)	585.1	(1)	405.5
Initial Spares		<u>11.9</u>		<u>22.2</u>		<u>3.5</u>
Subtotal		137.3		607.3		409.0
RDT&E		307.4		313.5		295.2
Military Construction		<u>18.8</u>		<u>11.5</u>		<u>24.4</u>
TOTAL		463.5		932.3		728.6

AIRCRAFT PROGRAMS
AIR FORCE

ENHANCED FLIGHT SCREENER (EFS)

Description: The Enhanced Flight Screening aircraft is a commercial off-the-shelf aircraft certified by the Federal Aviation Administration to replace the single engine, high wing T-41A and T-41C. The contractor will be competitively selected.

Mission: The EFS will provide a uniform Air Force flying program supplementing the Pilot Selection and Classification System (PSACS). The Air Force will use PSACS to place pilot candidates in the specialized track (Bomber-Fighter or Tanker-Transport) best suited to the candidates' performance and preference. The EFS will reduce the pilot attrition rate and associated cost of specialized undergraduate pilot training through comprehensive screening.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(38)	14.0	(42)	12.1	(33)	9.9
Initial Spares		<u>.9</u>		<u>1.1</u>		<u>1.6</u>
Subtotal		14.9		13.2		11.5
RDT&E		-		-		-
Military Construction		<u>-</u>		<u>-</u>		<u>3.8</u>
TOTAL		14.9		13.2		15.3

**AIRCRAFT PROGRAMS
AIR FORCE**

F-15E EAGLE MULTIMISSION FIGHTER

Description: The F-15E is a twin-engine, two man crew, fixed swept wing aircraft. The F-15E maintains the basic F-15 air superiority characteristics while adding air-to-surface weapons capability. Prime contractors are McDonnell Douglas of St. Louis, MO for the airframe, and Pratt & Whitney of East Hartford, CT for the engine.

Mission: The F-15E performs both air superiority and all-weather, deep penetration, and night/under-the-weather attack with large air-to-surface weapons payloads.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(3)	694.6	(-)	11.3	(-)	28.6
Initial Spares		<u>27.5</u>		<u>21.8</u>		<u>4.9</u>
Subtotal		722.1		33.1		33.5
RDT&E		92.9		59.9		91.5
Military Construction		<u>5.7</u>		<u>-</u>		<u>-</u>
TOTAL		820.7		93.0		125.0

AIRCRAFT PROGRAMS
AIR FORCE

F-16 MULTIMISSION FIGHTER (FALCON)

Description: The F-16 is a single seat, fixed wing, high performance fighter aircraft powered by a single engine. The advanced technology features include a blended wing body, reduced static margin and fly-by-wire flight control system. Prime contractors are Lockheed, Fort Worth, TX for the airframe and Pratt and Whitney, East Hartford, CT and General Electric, Evendale, OH for the engine.

Mission: The F-16 is being configured as a lightweight high performance, multipurpose fighter capable of performing credibly over a broad spectrum of tactical air warfare tasks at affordable cost.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(48)	1,150.8	(24)	676.5	(24)	795.5
Initial Spares		<u>86.9</u>		<u>33.7</u>		<u>1.2</u>
Subtotal		1,237.7		710.2		796.7
RDT&E		147.6		109.4		116.9
Military Construction		<u>-</u>		<u>2.3</u>		<u>-</u>
Total		1,385.3		821.9		913.6

AIRCRAFT PROGRAMS
AIR FORCE

F-22 ADVANCED TACTICAL FIGHTER (ATF)

Description: The F-22 ATF program will develop the next generation air superiority fighter for introduction in the late-1990's. The F-22 is being designed to penetrate enemy airspace and achieve first-look, first-kill capability against multiple targets. Program emphasis from the outset has been balanced between affordability, performance, survivability, and reliability/maintainability. The contractor team established for Engineering & Manufacturing Development is comprised of Lockheed, Marietta, GA, and Ft. Worth, TX, and Boeing, Seattle, WA for the airframe and Pratt & Whitney, West Palm Beach, FL for the engine.

Mission: Gain and maintain the air superiority advantage of our fighter forces over the continually evolving threat.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement		-		-		-
Item	(-)	-	(-)	-	(-)	-
Initial Spares		-		-		-
Subtotal		-		-		-
RDT&E		1,606.8		1,925.2		2,252.0
Military Construction		-		-		-
TOTAL		1,606.8		1,925.0		2,252.0

**AIRCRAFT PROGRAMS
AIR FORCE**

JOINT PRIMARY AIRCRAFT TRAINING SYSTEM (JPATS)

Description: The Joint Primary Aircraft Training System (JPATS) is a joint Air Force/Navy venture to replace both Services fleets of primary trainer aircraft (T-37 and T-34, respectively) and associated Ground Based Training Systems (GBTS). The program includes the purchase of aircraft, simulators, ground-based training devices, training management systems, instructional courseware, and logistics support. The contractor will be competitively selected.

Mission: The aircraft and GBTS will be used to train entry level student aviators in the fundamentals of flying so they can transition into advanced training tracks leading to qualification as military pilots, navigators, and Naval Flight Officers.

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	-	(-)	-	(-)	-
Initial Spares		-		-		-
		_____		_____		_____
Subtotal		-		-		-
RDT&E		-		-		41.5
Military Construction		-		-		-
		_____		_____		_____
TOTAL		-		-		41.5

AIRCRAFT PROGRAMS
AIR FORCE

KC-135 RE-ENGINEING/MODERNIZATION

Description: The KC-135 modernization effort incorporates new nacelles, pylons and some 34 total subsystem modifications. The KC-135A and Q model aircraft are also being re-engined under this program and the final 4 KC-135Q aircraft will receive new engines in FY 1993. The airframe prime contractor is the Boeing Military Aircraft Company, Wichita, KS, and the engine contractor is General Electric, Evendale, OH.

Mission: The modifications will enable the KC-135 to take off with maximum fuel loads, in shorter distances, and nearly eliminate the adverse noise impact. Operational payoff will be to increase fuel off-load by 30 to 200 percent. This modernization effort helps to alleviate the growing tanker shortfall and will enable the KC-135 to operate safely and efficiently well into the 21st century.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(26)	534.1	(4)	91.1	(-)	-
Initial Spares		<u>23.8</u>		<u>9.0</u>		<u>-</u>
Subtotal		557.9		100.1		-
RDT&E		-		-		-
Military Construction		<u>-</u>		<u>-</u>		<u>-</u>
TOTAL		557.9		100.1		-

AIRCRAFT PROGRAMS
AIR FORCE

KC-135E RE-ENGINEING/MODERNIZATION

Description: The KC-135E modernization effort incorporates new nacelles, pylons and some 34 total subsystem modifications. The KC-135E model aircraft is also being re-engined under this program and a total of 10 KC-135E Air National Guard aircraft will receive new engines in FY 1993. The airframe prime contractor is the Boeing Military Aircraft Company, Wichita, KS, and the engine contractor is General Electric, Evendale, OH.

Mission: The modifications will enable the KC-135E to take off with maximum fuel loads, in shorter distances, and nearly eliminate the adverse noise impact. Operational payoff will be to increase fuel off-load by 30 percent. This modernization effort helps to alleviate the growing tanker shortfall and will enable the KC-135E to operate safely and efficiently well into the 21st century.

Program Acquisition Costs
(\$ Millions)

	FY 1992		FY 1993		FY 1994	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	-	(10)	235.2	(-)	-
Initial Spares		-		-		-
Subtotal		-		235.2		-
RDT&E		-		-		-
Military Construction		-		-		-
TOTAL		-		235.2		-

AIRCRAFT PROGRAMS
AIR FORCE

MH-60G PAVE HAWK HELICOPTER

Description: The MH-60G is a substantially upgraded UH-60A designed to meet a variety of Air Force mission requirements. To upgrade combat mission capability, flexibility, and survivability, the MH-60G will receive extended range, precision low-level tactical navigation, and improved communication and weapon systems. All current Air Force H-60s are being upgraded to the MH-60G Pave Hawk configuration through a series of separate but coordinated modification programs involving contractor and government depot installations. The MH-60G is capable of a wide range of mission taskings in day and night Visual Meteorological Conditions (VMC) including marginal weather operations. The basic UH-60A airframe is manufactured by Sikorsky Helicopter, Stratford, CT, and the engine is produced by General Electric, Lynn, MA.

Mission: The MH-60G is a multimission helicopter designed for a variety of Air Force combat and peacetime operations. The principal wartime missions of the MH-60G are combat rescue and support for Special Operations Forces (SOF). In peacetime the MH-60G can be used for search and rescue, humanitarian assistance, civic action, foreign internal defense, counter terrorism, and low intensity conflict operations.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(6)	23.5	(10)	29.8	(-)	-
Initial Spares		<u>4.4</u>		<u>1.3</u>		<u>.5</u>
Subtotal		27.9		31.1		.5
RDT&E		-		-		-
Military Construction		<u>-</u>		<u>-</u>		<u>-</u>
TOTAL		27.9		31.1		.5

AIRCRAFT PROGRAMS
AIR FORCE

NATIONAL AEROSPACE PLANE (NASP)

Description: The National AeroSpace Plane (NASP) is a joint DoD/NASA technology development and demonstration program. The goal of the NASP is to develop the technological basis for runway-launched space transportation vehicles capable of single-stage-to-orbit and for aircraft capable of hypersonic flight in the atmosphere. The technologies are planned to be demonstrated in a flight research vehicle, the X-30, which is envisioned to be an airbreathing, single-stage-to-orbit experimental vehicle capable of operating (horizontal takeoff/landing) from conventional runways.

Mission: Following successful demonstration, the NASP technologies will provide the basis for military and civil vehicles capable of: global unrefueled operation, reaching any point on the globe in two hours or less; providing routine, "on demand" access to near space; reducing payload-to-orbit cost by an order of magnitude; and flexibly based, rapid response space launch.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	-	(-)	-	(-)	-
Initial Spares						
		_____		_____		_____
Subtotal		-		-		-
RDT&E		161.5		141.2		43.3
Military Construction		-		-		-
		_____		_____		_____
*TOTAL		161.5		141.2		43.3

*DoD funding only

AIRCRAFT PROGRAMS
AIR FORCE

T-1A TANKER-TRANSPORT TRAINING SYSTEM

Description: The Tanker-Transport Training System (TTTS) is required to implement Specialized Undergraduate Pilot Training (SUPT) in the Air Training Command. The TTTS is a modified version of a commercially available jet aircraft that can accommodate an instructor and two students. Under SUPT students will enter the Tanker-Transport (TT) track or the Bomber-Fighter (BF) track after 85 hours in the T-37 aircraft. This program also provides for procurement of Operational Flight Trainers (OFT). The prime contractor is Beech Aircraft, Wichita, KS.

Mission: This training concept is aimed at providing a higher quality graduate with more flying hours and skills specifically tailored to the needs of gaining commands. Additionally, it will reduce training costs and displace approximately 200 T-38s.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(34)	156.1	(36)	157.0	(35)	147.4
Initial Spares		<u>1.6</u>		<u>7.9</u>		<u>11.9</u>
Subtotal		157.7		164.9		159.3
RDT&E		3.1		2.3		2.2
Military Construction		<u>-</u>		<u>5.2</u>		<u>2.7</u>
TOTAL		160.8		172.4		164.2

AIRCRAFT PROGRAMS
SPECIAL OPERATIONS FORCES

AC-130U SPECTRE GUNSHIP

Description: The AC-130U is a new production aircraft modified and configured with side-firing weapons system. It is powered by four Allison T56-A-15 engines and is air refuelable. Mission equipment will include armament/automated fire control radar, Forward Looking Infrared Radar (FLIR), All Light Level Television (ALLTV), and an Electronic Counter Measures (ECM) suite. Armament includes side-firing 25, 40, and 105mm weapons. The normal crew for the AC-130U Gunship will be five officers and nine enlisted personnel.

Mission: The primary mission for the AC-130U Gunship will be precision fire support for Special Operations Forces and conventional forces, but will have the flexibility to perform other roles, including escort, surveillance, search and rescue and armed reconnaissance/interdiction.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(1)	77.9	(-)	-	(-)	27.8
Initial Spares		-		-		-
Subtotal		<u>77.9</u>		<u>-</u>		<u>27.8</u>
RDT&E		26.7		23.0		6.5
Military Construction		-		-		-
TOTAL		<u>104.6</u>		<u>23.0</u>		<u>34.3</u>

AIRCRAFT PROGRAMS
SPECIAL OPERATIONS FORCES

MC-130H COMBAT TALON II

Description: The MC-130H is a medium size four engine tactical transport with a ferry range of approximately 4,200 nautical miles and a cruise speed of 290 knots. Aircraft features of this specially modified C-130 are precision navigation with an infrared detection system, terrain following/terrain avoidance radar, electronic counter measures (ECM) subsystems and inflight refueling.

Mission: The mission of the MC-130H is to support the special operations requirements of the unified commands. This includes the ability to penetrate hostile areas for the infiltration, resupply, and exfiltration of US or allied special operations ground and maritime forces.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	113.0	(-)	53.5	(-)	24.0
Initial Spares		—		—		—
Subtotal		113.0		53.5		24.0
RDT&E		3.3		-		-
Military Construction		—		—		—
TOTAL		116.3		53.5		24.0

AIRCRAFT PROGRAMS
SPECIAL OPERATIONS FORCES

MH-47E ROTARY WING AIRCRAFT

Description: The MH-47E is a modified Army Chinook (CH-47D) medium-lift rotary wing aircraft. The SOF modifications will provide the aircraft a capability to fly at low altitudes in adverse weather for extended flight periods using precision navigation through a variety of unknown terrain.

Missions: The primary mission of the MH-47E is to insert/resupply/extract SOF elements within hostile air space. Other missions include rapid deployment, strategic intelligence, direct action strikes, and combat search and rescue.

Procurement

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(13)	188.9	(-)	5.0	(-)	4.1
Initial Spares						
		188.9		5.0		4.1
Subtotal		188.9		5.0		4.1
RDT&E		12.2		.4		9.9
Military Construction		-		-		-
TOTAL		201.1		5.4		14.0

**AIRCRAFT PROGRAMS
SPECIAL OPERATIONS FORCES**

MH-60K ROTARY WING AIRCRAFT

Description: The MH-60K is a modified Army Black Hawk (UH-60L) medium-lift twin engine helicopter. The SOF modifications will provide the aircraft a capability to fly at low altitudes in adverse weather for extended flight periods using precision navigation through a variety of unknown terrain.

Missions: The primary mission of the MH-60K is to insert/resupply/extract SOF elements within hostile air space. Other missions include rapid deployment, strategic intelligence, direct action strikes and combat search and rescue.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(5)	128.3	(6)	5.0	(-)	3.7
Initial Spares		—		—		—
Subtotal		128.3		5.0		3.7
RDT&E		11.5		2.5		9.9
Military Construction		—		—		—
TOTAL		139.8		7.2		13.6

**AIRCRAFT PROGRAMS
SPECIAL OPERATIONS FORCES**

MH-60L ROTARY WING AIRCRAFT

Description: The MH-60L is a highly modified U.S. Army Black Hawk (UH-60L) utility helicopter. The unique SOF modifications allow the aircraft to fly for extended ranges using precision navigation and long range communications which greatly reduce pilot stress and workload.

Missions: The primary mission of the MH-60L is to insert, resupply and extract SOF elements in a hostile environment. Other missions include rapid deployment, direct action against ground targets, and combat search and rescue.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(5)	128.3	(6)	5.0	(-)	3.7
Initial Spares	_____	-	_____	-	_____	-
Subtotal		128.3		5.0		3.7
RDT&E		11.5		2.2		9.9
Military Construction	_____	-	_____	-	_____	-
TOTAL		139.8		7.2		13.6

**MISSILE PROGRAMS
ARMY**

AAWS-M, JAVELIN ADVANCED ANTI-TANK WEAPON SYSTEM-MEDIUM

Description: The JAVELIN Advanced Anti-Tank Weapon System-Medium will replace the existing DRAGON as the infantry medium anti-tank weapon. This program will provide for the development of a man-portable system for the dismounted infantry capable of defeating the evolving armor threat and allowing operation in day/night adverse weather conditions, and in the presence of battlefield obscurants. The prime contractor is a Texas Instruments/Martin Marietta Javelin Joint Venture at Lewisville, TX and Orlando, FL.

Mission: To defeat armor targets.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	-	(-)	18.2 (1,000)		207.3
Initial Spares		-		-		-
		-		18.2		207.3
Subtotal		-		18.2		207.3
RDY&B		118.3		95.9		44.9
Military Construction		-		-		-
		-		-		-
TOTAL		118.3		114.1		252.2

**MISSILE PROGRAMS
ARMY**

ATACMS, ARMY TACTICAL MISSILE SYSTEM

Description: Army TACMS is a ground-launched missile system consisting of a surface-to-surface guided missile with an anti-personnel/anti-materiel (APAM) warhead configuration. Army TACMS missiles are fired from modified Multiple Launch Rocket System (MLRS) launchers. The prime contractor is Loral Vought Corporation, Dallas, TX.

Mission: To provide deep fires in near all-weather conditions, day or night. It is air transportable and capable of effectively engaging high priority targets at ranges beyond the capability of cannons and rockets. Army TACMS will be used to attack tactical surface-to-surface missile sites, air defense systems, logistics elements and command/control/communications complexes.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(300)	172.4	(351)	190.6	(255)	152.6
Initial Spares		-		-		-
Subtotal		172.4		190.6		152.6
RDT&E		-		-		25.8
Military Construction		5.0		5.5		-
TOTAL		177.4		196.1		178.4

**MISSILE PROGRAMS
ARMY**

AVENGER

Description: The Avenger System is a lightweight, highly mobile transportable surface-to-air missile system mounted on a High Mobility Multipurpose Wheeled Vehicle (HMMWV). Avenger, with a two man crew, can fire on the move and be operated remotely. Individual STINGER missiles may be extracted from the Standard Vehicle Mounted Launchers (SVML) and fired in a man-portable configuration. Avenger fills the Line of Sight-Rear (LOS-R) portion of the Forward Area Air Defense System (FAADS). The prime contractor is Boeing Corporation, Huntsville, AL.

Mission: To provide low altitude air defense in the heavy, light, and special divisions, Armored Cavalry Regiments, and Corps air defense brigades.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(144)	183.7	(144)	146.9	(144)	135.2
Initial Spares		-		11.9		14.6
Subtotal		183.7		158.8		149.8
RDT&E		2.5		11.8		7.4
Military Construction		-		-		-
TOTAL		186.2		170.6		157.2

MISSILE PROGRAMS
ARMY

BRILLIANT ANTI-ARMOR (BAT) SUBMUNITION

Description: The BAT is an anti-armor top attack submunition with acoustic and infrared (IR) seekers working in tandem. This submunition is capable of being delivered by a variety of missiles. The contractor is the Northrop Corporation, Hawthorne, CA.

Mission: Deep attack of armored vehicles.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement	(-)	-	(-)	-	(-)	-
Item		-		-		-
Initial Spares		-		-		-
Subtotal		-		-		-
RDT&E		118.3		114.8		117.0
Military Construction		-		-		-
TOTAL		118.3		114.8		117.0

**MISSILE PROGRAMS
ARMY**

LASER HELLFIRE MISSILE SYSTEM

Description: HELLFIRE II is an air-to-ground, anti-armor missile system designed to defeat individual hardpoint targets. It utilizes semi-active laser terminal homing guidance and is designed to accept other guidance packages. The missile is built by Martin Marietta in Orlando, FL.

Mission: HELLFIRE II will be employed from AH-64 (APACHE) and specially configured OH-58D (Armed Kiowa Warrior) helicopters against heavily armored vehicles at longer ranges and with greater lethality than heliborne missiles currently in the inventory.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(89)	11.7	(1,781)	82.9	(1,785)	92.5
Initial Spares		-		-		-
		11.7		82.9		92.5
Subtotal		11.7		82.9		92.5
RDT&E		21.3		4.7		3.1
Military Construction		-		-		-
		-		-		-
TOTAL		33.0		87.6		85.6

MISSILE PROGRAMS
ARMY

MULTIPLE LAUNCH ROCKET SYSTEM (MLRS)

Description: The Multiple Launch Rocket System (MLRS) is a 227mm diameter system with tracked, self-propelled, launcher loader, disposable pods, and fire control equipment. The prime contractor is Loral Vought Corporation, Dallas, TX.

Mission: To neutralize or suppress enemy field artillery and air defense systems and supplement cannon artillery.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Rockets	(9,306)	59.7	(24,000)	109.8	(-)	9.8
Launchers	(44)	125.1	(44)	144.8	(34)	216.6
Initial Spares		-		17.4		12.4
		<hr/>		<hr/>		<hr/>
Subtotal		184.8		272.0		238.8
RDT&E		20.2		23.7		40.9
Military Construction		-		-		-
		<hr/>		<hr/>		<hr/>
TOTAL		205.0		295.7		279.7

**MISSILE PROGRAMS
ARMY**

PATRIOT AIR DEFENSE MISSILE SYSTEM

Description: PATRIOT is a high and medium-altitude, field Army air defense system. The missile is designed under the certified round concept, requiring no field maintenance and employs a unique guidance concept called track-via-missile (TVM) which provides greatly increased accuracy. The prime contractor is Raytheon Corporation of West Andover, MA.

Mission: Provides the Army with effective air defense against the advanced threat. Provides multiple, simultaneous engagements of attacking aircraft using saturation, maneuver and sophisticated electronic countermeasures in an all-weather environment.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(97)	163.0	(-)	24.9	(-)	40.6
Initial Spares		-		4.2		14.8
Subtotal		163.0		29.1		55.4
RDT&E		37.9		36.3		37.7
Military Construction		-		-		-
TOTAL		200.9		65.4		93.1

MISSILE PROGRAMS
ARMY

TOW-2 MISSILE SYSTEM

Description: TOW-2 is a heavy, anti-tank/assault, wire-guided missile system, consisting of a missile, a launcher system, missile guidance set, and other ground support equipment. It is mounted on a variety of combat vehicles, including Bradley, ITV, M113, HMMWV, and the COBRA/TOW helicopter. Maximum range is 3,750 meters. The prime contractor for the missile is Hughes Aircraft Company, Tucson, AZ.

Mission: The mission of the TOW-2 missile is to defeat armor and hardpoint targets.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(9,550)	200.6	(8,900)	182.0	(-)	25.3
Initial Spares		-		-		-
Subtotal		200.6		182.0		25.3
RDT&E		33.1		-		37.5
Military Construction		-		-		-
TOTAL		233.7		182.0		62.8

MISSILE PROGRAMS
NAVY

AMRAAM

Description: The Advanced Medium Range Air-to-Air Missile (AMRAAM) is an all weather, all-environment radar guided missile developed to improve capabilities against very low-altitude and high-altitude, high-speed targets in an electronic countermeasures environment. The prime contractors are Hughes Missile System Company, Tucson, AZ and Raytheon Corporation, Lowell, MA.

Mission: The mission of the AMRAAM is to destroy low and high altitude, high-speed enemy targets in an electronic countermeasures environment.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(191)	191.5	(140)	121.4	(44)	59.1
Initial Spares		<u>9.3</u>		<u>1.0</u>		<u>1.3</u>
Subtotal		200.8		122.4		60.4
RDT&E		2.6		2.6		15.2
Military Construction		<u>-</u>		<u>-</u>		<u>-</u>
TOTAL		203.4		125.0		75.6

MISSILE PROGRAMS
NAVY

HARM

Description: The High Speed Anti-Radiation Missile (HARM) is an air-to-surface missile designed to suppress or destroy land and sea-based radars involved with enemy air defense systems. The prime contractor is Texas Instruments, Dallas, TX.

Mission: The mission of the HARM is to suppress or destroy enemy radars that direct air defense artillery or surface-to-air missiles.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(749)	210.3	(-)	31.3	(-)	-
Initial Spares		<u>7.4</u>		<u>-</u>		<u>-</u>
Subtotal		217.7		31.3		-
RDT&E		3.9		-		-
Military Construction		<u>-</u>		<u>-</u>		<u>4.6</u>
TOTAL		221.6		31.3		4.6

MISSILE PROGRAMS
NAVY

HARPOON

Description: The HARPOON is a ship, air and submarine-launched all-weather anti-ship and land-attack cruise missile. The Standoff Land Attack Missile (SLAM) variant is a day/night, adverse-weather capable weapon which is effective against fixed targets and ships in harbor. The prime contractor is McDonnell Douglas, St. Louis, MO.

Mission: The mission of the HARPOON missile is to attack enemy destroyers, cruisers, patrol craft, and other enemy shipping and shore targets as required.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(110)	167.0	(70)	89.5	(75)	98.4
Initial Spares		_____ -		_____ -		_____ -
Subtotal		167.0		89.5		98.4
RDT&E		-		-		19.2
Military Construction		_____ -		_____ -		_____ -
TOTAL		167.0		89.5		117.6

MISSILE PROGRAMS
NAVY

HELLFIRE

Description: The HELLFIRE is an anti-armor missile fired from the AH-1T/J helicopter. The prime contractor is Martin Marietta, Orlando, FL.

Mission: The mission of the HELLFIRE missile is to provide the Marine Corps with the ability to penetrate modern armor with minimum exposure of the launching platform to enemy counterfire.

Program Acquisition Costs
(\$ Millions)

	FY 1992		FY 1993		FY 1994	
	Qty	Amt	Qty	Amt	Qty	Amt
Procurement						
Item	(-)	-	(1,000)	49.9	(1,931)	83.9
Initial Spares		—		—		—
Subtotal		-		49.9		83.9
RDT&E		-		-		-
Military Construction		—		—		—
TOTAL		-		49.9		83.9

MISSILE PROGRAMS
NAVY

PENGUIN

Description: The Penguin missile provides a short range, air-to-surface anti-ship missile system to be operated from the LAMPS MK-III SH-60B helicopter. The prime contractor is Norsk Forsvarsteknologi of Norway.

Mission: The mission of the PENGUIN missile is to provide the Navy with a short range, air-to-surface anti-ship weapon.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(42)	44.4	(-)	-	(-)	-
Initial Spares		<u>1.8</u>		<u>-</u>		<u>-</u>
Subtotal		46.2		-		-
RDT&E		-		-		-
Military Construction		<u>-</u>		<u>-</u>		<u>-</u>
TOTAL		46.2		-		-

MISSILE PROGRAMS
NAVY

ROLLING AIRFRAME MISSILE (RAM)

Description: The Rolling Airframe Missile (RAM) is a high fire-power, low cost, lightweight complementary self-defense system to engage anti-ship capable missiles. The prime contractor is Hughes Missile Systems Company, Tucson, AZ.

Mission: The mission of the RAM is to provide high firepower close-in defense of combatant and auxiliary ships by utilizing a dual mode, passive radio frequency/infrared missile in a compact 21 cell launcher.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	9.1	(-)	8.2	(240)	58.5
Initial Spares		_____ -		_____ -		_____ .6
Subtotal		9.1		8.2		59.1
RDT&E		4.9		9.5		9.1
Military Construction		_____ -		_____ -		_____ -
TOTAL		14.0		17.7		68.2

**MISSILE PROGRAMS
NAVY**

STANDARD MISSILE

Description: The STANDARD missile family consists of various air defense missiles including supersonic, medium and extended range, surface-to-air and surface-to-surface missiles. The prime contractors are Hughes Missile Systems, Tucson, AZ and Raytheon Corporation, Lowell, MA.

Mission: The mission of the STANDARD missile family is to provide all-weather, anti-aircraft and surface-to-surface armament for cruisers, destroyers and guided missile frigates.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(330)	256.5	(330)	254.0	(220)	215.0
Initial Spares		<u>9.1</u>		<u>5.8</u>		<u>7.1</u>
Subtotal		265.6		259.8		222.1
RDT&E		70.3		50.1		63.0
Military Construction		<u>-</u>		<u>-</u>		<u>-</u>
TOTAL		335.9		309.9		285.1

MISSILE PROGRAMS
NAVY

TOMAHAWK

Description: The TOMAHAWK cruise missile weapon system is a long-range conventionally armed system which is sized to fit torpedo tubes and capable of being deployed from a variety of air, surface-ship, submarine, and land platforms. The prime contractors are Hughes Missile Systems, Tucson, AZ and McDonnell Douglas, St. Louis, MO.

Mission: The mission of the TOMAHAWK is to provide a long-range cruise missile launched from a variety of platforms against land and sea targets.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(176)	411.2	(200)	402.0	(216)	248.3
Initial Spares		<u>15.9</u>		<u>14.6</u>		<u>5.5</u>
Subtotal		427.1		416.6		253.8
RDT&E		28.2		27.0		41.6
Military Construction		<u>10.6</u>		<u>-</u>		<u>-</u>
TOTAL		465.9		443.6		295.4

MISSILE PROGRAMS
NAVY

TRIDENT II

Description: The TRIDENT II is a submarine launched ballistic missile with greater range/payload capability and improved accuracy than the TRIDENT I. The major contractor is Lockheed Missile and Space Company, Sunnyvale, CA.

Mission: The mission of the TRIDENT II is to deter nuclear war by means of assured retaliation in response to a major attack on the U.S. and to enhance nuclear stability by providing no incentive for enemy first strike.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(28)	1,095.4	(21)	981.3	(24)	1,128.6
Initial Spares		<u>1.3</u>		<u>2.2</u>		<u>3.4</u>
Subtotal		1,096.7		983.5		1,132.0
RDT&E		42.2		46.9		43.0
Military Construction		<u>-</u>		<u>-</u>		<u>-</u>
TOTAL		1,138.9		1,030.4		1,175.0

MISSILE PROGRAMS
MARINE CORPS

AVENGER

Description: The Avenger System, also known as the Pedestal Mounted Stinger (PMS), is a lightweight, highly mobile transportable surface-to-air missile system mounted on a High Mobility Multipurpose Wheeled Vehicle (HMMWV). Avenger, with a two man crew, can fire on the move and be operated remotely. Individual Stinger missiles may be extracted from the Standard Vehicle Mounted Launchers (SVML) and fired in a man-portable configuration. The prime contractor is Boeing Corporation, Huntsville, AL.

Mission: The mission of the Avenger system is to provide low altitude air defense for the Marine Corps Expeditionary Forces.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Ant</u>	<u>Qty</u>	<u>Ant</u>	<u>Qty</u>	<u>Ant</u>
Procurement						
Item	(5)	12.9	(26)	28.1	(24)	19.2
Initial Spares		-		-		-
		<hr/>		<hr/>		<hr/>
Subtotal		12.9		28.1		19.2
RDT&E		-		-		-
Military Construction		<hr/>		<hr/>		<hr/>
TOTAL		12.9		28.1		19.2

**MISSILE PROGRAMS
MARINE CORPS**

TOW-2 MISSILE SYSTEM

Description: The TOW-2 is a heavy, anti-tank/assault, wire-guided missile system, consisting of a missile, a launcher system, and other ground support equipment. It is mounted on a variety of combat vehicles and the COBRA/TOW helicopter. The maximum range is 3,750 meters. The contractor for the missile is Hughes Aircraft Company, Tucson, AZ.

Mission: The mission of the TOW-2 missile is to provide the Marine Corps Amphibious Force with heavy, long-range, anti-tank/assault fire capability for employment against armored vehicles and fortified point targets.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(2,168)	30.0	(-)	-	(-)	-
Initial Spares		_____ -		_____ -		_____ -
Subtotal		30.0		-		-
RDT&B		-		-		-
Military Construction		_____ -		_____ -		_____ -
TOTAL		30.0		-		-

MISSILE PROGRAMS
AIR FORCE

ADVANCED CRUISE MISSILE (ACM)

Description: The Advanced Cruise Missile (ACM) is a low-observable air launched cruise missile with survivability, range, accuracy and targeting flexibility. Its low observable design and terrain-following capability insure high probability of defense penetration. The prime contractors are Hughes, Convair Division in San Diego, CA and McDonnell Douglas, Titusville, FL.

Mission: The mission of the Advanced Cruise Missile is to allow strategic bombers to launch from points beyond the range of far-forward defense.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(57)	192.0	(-)	99.0	-	59.4
Initial Spares		-		-		-
Subtotal		192.0		99.0		59.4
RDT&E		39.3		19.5		25.4
Military Construction		-		1.3		-
TOTAL		231.3		119.8		84.8

MISSILE PROGRAMS
AIR FORCE

AGM-130 AIR-TO-GROUND MISSILE

Description: The AGM-130 program is a powered, unitary (2,000 LB MK-84) version of the GBU-15. The AGM-130 is a flexible stand-off weapon for the F-4E, F-111F and F-15E aircraft which increases the Tactical Air Forces coverage of targets. Rockwell in Duluth, GA is the prime contractor.

Mission: Provides the capability to deliver 2,000 pound bombs from stand-off range outside point air defense.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(120)	71.2	(102)	74.9	(130)	73.9
Initial Spares		1.7		.3		.1
Subtotal		72.9		75.2		74.0
RDT&E		20.6		7.7		1.9
Military Construction		-		-		-
TOTAL		93.5		82.9		75.9

MISSILE PROGRAMS
AIR FORCE

AMRAAM

Description: The Advanced Medium Range Air-to-Air Missile (AMRAAM) is an all weather, all-environment radar guided missile developed to improve capabilities against very low-altitude and high-altitude, high-speed targets in an electronic countermeasures environment. The prime contractors are Hughes Missile System Company, Tucson, AZ and Raytheon Corporation, Lowell, MA.

Mission: The mission of the AMRAAM is to destroy low and high altitude, high-speed enemy targets in an electronic countermeasures environment.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(630)	532.3	(900)	623.1	(749)	501.6
Initial Spares		14.0		6.9		8.3
Subtotal		546.3		630.0		509.9
RDT&E		30.0		33.3		69.8
Military Construction		-		-		-
TOTAL		576.3		663.3		579.7

MISSILE PROGRAMS
AIR FORCE

HARM

Description: The High Speed Anti-Radiation Missile (HARM) is an air-to-surface missile designed to suppress or destroy land and sea-based radars involved with enemy air defense systems. The prime contractor is Texas Instruments, Dallas, TX.

Mission: The mission of the HARM is to suppress or destroy enemy radars that direct air defense artillery or surface-to-air missiles.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(465)	110.3	(846)	215.1	(-)	-
Initial Spares		-		-		-
Subtotal		110.3		215.1		-
RDT&E		-		-		-
Military Construction		-		-		-
TOTAL		110.3		215.1		-

MISSILE PROGRAMS
AIR FORCE

HAVE NAP AIR-GROUND MISSILE

Description: HAVE NAP is a medium range, standoff conventional missile. It is powered by a single stage low smoke rocket motor, carries a 750 pound warhead and uses inertial guidance to a terminal seeker for precision guidance. Rafael Industries in Israel is the contractor for HAVE NAP.

Mission: Have Nap provides a standoff capability with a precision guided weapon.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(32)	34.5	(-)	23.6	(-)	-
Initial Spares		<u>2.6</u>		<u>-</u>		<u>-</u>
Subtotal		37.1		23.6		-
RDT&E		-		-		-
Military Construction		<u>-</u>		<u>-</u>		<u>-</u>
TOTAL		37.1		23.6		-

MISSILE PROGRAMS
AIR FORCE

PEACEKEEPER

Description: The PEACEKEEPER is an advanced, highly accurate Multiple Independently Targetable Reentry Vehicle (MIRV) Intercontinental Ballistic Missile (ICBM). The prime contractor is Rockwell, Anaheim, CA.

Mission: The mission of the PEACEKEEPER is to deter a strategic attack on the U.S.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	120.4	(-)	27.1	(-)	-
Initial Spares		-		-		-
		120.4		27.1		-
Subtotal		120.4		27.1		-
RDT&E		2.9		-		-
Military Construction		-		-		-
		123.3		27.1		-
TOTAL		123.3		27.1		-

MISSILE PROGRAMS
DOD PROGRAM

TRI-SERVICE STANDOFF ATTACK MISSILE, (TSSAM)

Description: The Tri-Service Standoff Attack Missile (TSSAM) is a low observable, standoff, conventionally armed cruise missile capable of both air and ground launched employment. The air launched version of the TSSAM is being developed for Air Force and Navy fighter and bomber aircraft including the B-2, B-52, F-16, A-6 and F/A-18. A ground launched version is also being developed for use on the Army's Multiple Launch Rocket System. Northrop Corp., Hawthorne, CA is the prime contractor for the TSSAM system. Funding details prior to FY 1994 are classified.

Mission: The mission of the air launched TSSAM is to strike high value land and sea targets with either a unitary warhead or multiple submunitions. The ground launched TSSAM will strike groups of targets such as tanks, personnel carriers, or other armored vehicles.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	-	(-)	-	(-)	195.9
Initial Spares		-		-		-
		<hr/>		<hr/>		<hr/>
Subtotal		-		-		195.9
RDT&E		-		-		433.2
Military Construction		-		-		-
		<hr/>		<hr/>		<hr/>
TOTAL		-		-		629.1

VESSEL PROGRAMS
NAVY

AOE (AOE-6) FAST COMBAT SUPPORT SHIP

Description: The AOE-6 is a twin screw, 26 knot sustained speed, gas turbine combat support ship, 753 feet 8 inches in overall length, 107 feet in beam, and a draft of 38 feet, with a total of 667 accommodations. The contract for the lead AOE-6 class ship was awarded competitively to NASSCO in San Diego, CA. in FY 1987. Options to this contract were exercised for ships in FY 1989 and FY 1990. A competitive award for the AOE-10 was made in January 1993 to NASSCO.

Mission: The mission of the AOE-6 fast combat support ship is to provide delivery of on-station munitions, bulk petroleum oil, lubricants (POL), and dry and frozen provisions to the battle groups underway in hostile environments. The AOE-6 class significantly extends the endurance of the battle group for combat operations.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	199.1	(1)	298.1	(-)	-
Outfitting		5.0		12.9		6.2
Post Delivery		-		12.7		4.4
Prior Year Inflation		<u>5.9</u>		<u>-</u>		<u>-</u>
Subtotal		210.0		323.7		10.6
RDT&E		.4		-		-
Military Construction		<u>12.9</u>		<u>.9</u>		<u>-</u>
TOTAL		223.3		324.6		10.6

VESSEL PROGRAMS
NAVY

AGOR/TAGS OCEANOGRAPHIC RESEARCH SHIP

Description: The AGOR/TAGS is a new class of oceanographic research vessels capable of operating worldwide in all seasons, and suitable for use by Navy laboratories, contractors and academic institutions. These ships meet changing oceanographic requirements for general, year-round, worldwide, ocean research which includes launching, towing, and recovering a variety of large and heavy equipment.

Mission: Provides general oceanographic research and surveying capabilities supporting multiple geophysical disciplines in near coastal to deep ocean areas.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(2)	108.7	(-)	-	(2)	110.0
Outfitting		1.2		1.6		3.2
Post Delivery		5.0		3.3		-
Prior Year						
TAGS Completion		<u>40.0</u>		<u>-</u>		<u>-</u>
Subtotal		154.9		4.9		113.2
RDT&E		.3		.8		.3
Military Construction		<u>-</u>		<u>-</u>		<u>-</u>
TOTAL		155.2		5.7		113.5

VESSEL PROGRAMS
NAVY

CENTURION

Description: The New Attack Submarine (NAS) or Centurion program is a new start development effort intended to provide for a lower cost attack submarine platform or possibly other ASW system alternatives. Initiation of concept studies occurred in FY 1992.

Mission: The mission of the CENTURION is to counter the rapidly increasing capabilities of enemy submarine and surface forces projected for the 21st century.

Program Acquisition Costs
(\$ Millions)

	FY 1992		FY 1993		FY 1994	
	Qty	Amt	Qty	Amt	Qty	Amt
Procurement						
Item	(-)	-	(-)	-	(-)	-
Outfitting		-		-		-
Prior Year Escalation		-		-		-
Subtotal		-		-		-
RDT&E		23.0		90.8		449.2
Military Construction		-		-		-
TOTAL		23.0		90.8		449.2

VESSEL PROGRAMS
NAVY

CVN-68 NUCLEAR AIRCRAFT CARRIER

Description: The NIMITZ Class aircraft carriers have two nuclear reactors and nuclear fuel for at least 15 years of normal carrier operations. The ship's overall length is 1,092 feet and an extreme breadth of 252 feet. Combat load displacement is approximately 96,000 tons. The flight deck area is approximately 4.5 acres. The prime contractor is Newport News Shipbuilding, Newport News, VA.

Mission: The mission of the CVN-68 ship is to support and operate aircraft that can engage in attacks on targets afloat and ashore which threaten use of the sea by the United States.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	-	(-)	829.4	(-)	-
Outfitting		10.0		8.6		11.0
Post Delivery		14.4		11.4		-
Prior Year Escalation		<u>162.0</u>		<u>-</u>		<u>-</u>
Subtotal		186.4		849.4		11.0
RDT&E		8.2		12.0		11.5
Military Construction		<u>-</u>		<u>-</u>		<u>-</u>
TOTAL		194.6		861.4		22.5

VESSEL PROGRAMS
NAVY

DDG-51 AEGIS DESTROYER

Description: The ARLEIGH BURKE Class Guided Missile Destroyer is 466 feet long and displaces less than 8,300 tons. It is armed with a Vertical Launching System accommodating 90 missiles, including TOMAHAWK, SM-2 and ASROC. Prime features include the SPY-1D Radar, SQS-53C Sonar, SQR-19 TACTAS, three MK-99 Illuminators, 5"/54 rapid fire gun with SEAFIRE Fire Control System, Close-In-Weapon System and SLQ-32 Electronic Warfare System and decoy launchers. The class is designed with a gas turbine propulsion system. The lead ship was awarded to Bath Iron Works, Bath, ME in FY 1985. Ingalls Shipbuilding Division of Pascagoula, MS has also been awarded follow-ships.

Mission: The mission of the DDG 51 Class is to operate defensively and offensively as units of Carrier Battle Groups and Surface Action Groups, in support of Underway Replenishment Groups and the Marine Amphibious Task Force in multi-threat environments that include air, surface, and subsurface threats.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(5)	3,974.6	(4)	3,244.4	(3)	2,642.8
Outfitting		16.8		105.4		36.0
Post Delivery		-		34.9		74.8
Prior Year Escalation		<u>22.4</u>		<u>-</u>		<u>-</u>
Subtotal		4,013.8		3,384.7		2,753.6
RDT&E		94.0		110.5		104.0
Military Construction		<u>.6</u>		<u>-</u>		<u>-</u>
TOTAL		4,108.4		3,495.2		2,857.6

VESSEL PROGRAMS
NAVY

LANDING CRAFT, AIR CUSHION (LCAC)

Description: The landing craft air cushion vehicle is 88 feet long and 47 feet wide. The craft can operate over both water and land. It can be carried in the well deck of present and future amphibious ships. It has a payload capability of 60-plus tons and can operate at 40 knots with this load. Contractors are Bell Aerospace Textron of New Orleans, LA and Avondale Gulfport Marine of Gulfport MS.

Mission: The mission of the LCAC is to transport weapons systems, equipment, cargo and personnel of the assault elements of the Marine Corps air/ground task force from ship-to-shore and across the beach.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(19)	383.9	(-)	-	(-)	-
Outfitting		-		-		-
Post Delivery		5.6		4.6		4.0
Prior Year Escalation		_____ -		_____ -		_____ -
Subtotal		389.5		4.6		4.0
RDT&E		-		-		-
Military Construction		_____ 22.5		_____ -		_____ -
TOTAL		412.0		4.6		4.0

VESSEL PROGRAMS
NAVY

LHD-1 AMPHIBIOUS ASSAULT SHIP

Description: The LHD is a twin screw, 22 knot multi-purpose amphibious assault ship, 844 feet in overall length, 106 foot beam with accommodations for 2,802 personnel, including troops. The first five ships of this class have been awarded to Ingalls Shipbuilding Division, Pascagoula, MS. Advance procurement funding to begin incremental procurement of a sixth LHD was appropriated in FY 1993. A contract for this ship was awarded in January 1993. The LHD is required to augment current amphibious lift capacity, ultimately replacing LPH class ships.

Mission: The mission of the LHD-1 ship is to embark, deploy, and land elements of a Marine Corps landing force in an assault by helicopters, V/STOL aircraft, landing craft, and amphibious vehicles. The LHD can be used in a convertible role either as sea control or force projection.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	-	(-)	303.1	(1)	893.8
Outfitting		10.3		20.2		16.3
Post Delivery		15.6		16.0		-
Prior Year Escalation		_____ -		_____ -		_____ -
Subtotal		25.9		339.3		910.1
RDT&E		-		-		-
Military Construction		_____ -		_____ -		_____ -
TOTAL		25.9		339.3		910.1

VESSEL PROGRAMS
NAVY

LSD-CV, LANDING DOCK SHIP CARGO VARIANT

Description: The LSD-CV is a twin screw, diesel propelled amphibious assault ship, 609 feet overall length, 84 feet maximum beam, with a total of 917 accommodations. The lead 1988 ship was awarded to Avondale Shipyard, New Orleans, LA.

Mission: The mission of the LSD-CV is to transport and launch loaded amphibious craft, cargo and vehicles with their crews and embarked personnel in amphibious assault operations. It will also provide limited docking and repair services for conventional craft and the Landing Craft Air Cushion (LCAC). The LSD-CV Cargo variant class ships are required in order to make up a cargo shortfall within the overall amphibious lift objective.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	25.0	(1)	298.1	(-)	-
Outfitting		-		10.6		13.1
Post Delivery		-		-		10.7
Prior Year Escalation		-		-		-
Subtotal		25.0		308.7		23.8
RDT&E		-		-		-
Military Construction		-		-		-
TOTAL		25.0		308.7		23.8

VESSEL PROGRAMS
NAVY

WARFARE COMMAND AND CONTROL (C2) SHIP CONVERSION (MCS(C))

Description: This program converts a LPH to a dedicated Mine Countermeasures support ship configured to perform a wide range of mine countermeasures (MCM) support missions worldwide. This ship will provide an operating base and support for helicopter and Explosive Ordnance Disposal (MCM) detachments and maintenance and logistics support for MCM/MHC vessels.

Mission: The mission of the MCS ship is to provide command, control, and communications in addition to air and surface mine countermeasures assets.

Program Acquisition Costs
(\$ Millions)

	FY 1992		FY 1993		FY 1994	
	Qty	Amt	Qty	Amt	Qty	Amt
Procurement						
Item	(-)	-	(-)	-	(1)	124.2
Outfitting		-		-		7.9
Post Delivery		-		-		-
Subtotal		-		-		132.1
RDT&E		3.6		7.0		1.2
Military Construction		-		-		-
TOTAL		3.6		7.0		133.3

VESSEL PROGRAMS
NAVY

MHC COASTAL MINEHUNTER

Description: The Coastal Minehunter is a glass reinforced plastic hull ship 188 feet in length. It is capable of coastal mine clearance operations of up to 15 days duration without replenishment. The lead ship was awarded to Intermarine USA. Avondale Shipyards, New Orleans, LA has been selected as a second source.

Mission: The mission of the MHC is to hunt, sweep, and/or neutralize modern enemy moored and bottom mines in a coastal scenario to allow breakout of U.S combatant and resupply ships from key CONUS military and commercial ports.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(3)	313.4	(2)	234.6	(-)	-
Outfitting		6.3		13.7		24.3
Post Delivery		<u> -</u>		<u> 5.2</u>		<u> 4.4</u>
Subtotal		319.7		253.5		28.7
RDT&E		-		-		-
Military Construction		<u> -</u>		<u> -</u>		<u> -</u>
TOTAL		319.7		253.5		28.7

SHIP PROGRAMS
SPECIAL OPERATIONS FORCES

PATROL COASTAL (SHIP) CLASS (PC-1)

Description: The Patrol Coastal is a 170 foot, long range, high speed ship designed to survive through Sea State 5 conditions. The craft will be equipped with two MK 38 25mm guns as well as M60 and .50 caliber machine guns and shoulder fired Stinger missiles.

Mission: The Patrol Coastal will operate in shallow water coastal waterways to conduct coastal patrol, surveillance, interdiction operations, and support Naval Special Warfare missions which include tactical swimmer operations and the launching and recovery of SEAL combat rubber raiding craft.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(5)	65.0	(-)	4.2	(-)	25.4
Initial Spares		-		-		-
Subtotal		<u>65.0</u>		<u>4.2</u>		<u>25.4</u>
RDT&E		.1		4.4		.9
Military Construction		-		-		-
TOTAL		<u>65.1</u>		<u>8.6</u>		<u>26.3</u>
Total		65.0		8.6		26.3

TRACKED COMBAT VEHICLES
ARMY

ARMORED SYSTEMS MODERNIZATION (ASM)

Description: The Armored Systems Modernization (ASM) is a program for the next generation of armored vehicles for the close combat. It provides a framework for more capable and affordable future combat vehicles emphasizing commonality of components and modularity of design. The following systems have replaced the Block III tank as the lead systems in the ASM fielding plan: Advanced Field Artillery System (AFAS) and Future Armored Resupply Vehicle-Ammunition (FARV-A).

Mission: The mission of the Armored Systems Modernization program is to provide the architecture for developing, fielding, training, fighting, maintaining and supporting the follow-on combat and combat support vehicles for the 21st century.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item		-		-		-
Initial Spares		-		-		-
		-----		-----		-----
Subtotal		-		-		-
RDT&E		291.5		314.1		148.3
Military Construction		-		-		-
		-----		-----		-----
TOTAL		291.5		314.1		148.3

TRACKED COMBAT VEHICLES
ARMY

BRADLEY FIGHTING VEHICLE SYSTEMS BFVS

Description: The Bradley Fighting Vehicle Systems (BFVS) is a full tracked, lightly armored fighting vehicle which provides mechanized infantry and cavalry units with protected cross-country mobility and vehicular mounted firepower. Both the Infantry Fighting Vehicle (IFV) and Cavalry Fighting Vehicle (CFV) have a two-man turret which mounts the 25mm automatic stabilized cannon, its primary armament, supported by the TOW missile system and the 7.62mm coaxial machine gun. All weapons are capable of being employed from the fully protected positions within the vehicle. The prime contractor is FMC Corporation, San Jose, CA.

Mission: The mission of the Bradley Fighting Vehicle is to provide mechanized infantry and cavalry units with protected cross-country mobility and vehicular mounted firepower.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	()	107.1	(-)	103.5	(-)	66.1
Initial Spares		-		17.5		13.6
		-----		-----		-----
Subtotal		107.1		121.0		79.7
RDT&E		-		14.9		-
Military Construction		-		-		-
		-----		-----		-----
TOTAL		107.1		135.9		79.7

TRACKED COMBAT VEHICLES
ARMY

BRADLEY UPGRADE PROGRAM

Description: The Bradley upgrade program provides continued modernization to the Bradley Fighting Fleet. The program includes upgrading first-generation Bradley vehicles to the current M2A2 configuration as well as a new M2A3 upgrade program that provides digitized communications and target acquisition upgrades required to fight as a member of the combined arms team.

Mission: The mission of the Bradley upgrade program is to provide a fighting vehicle system with increased survivability, mobility and lethality.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	-	(-)	125.0	(-)	192.0
Initial Spares		-		-		-
Subtotal		-		125.0		192.0
RDT&E		-		-		46.0
Military Construction		-		-		-
TOTAL		-		125.0		238.0

TRACKED COMBAT VEHICLES
ARMY

M1A1, ABRAMS TANK

Description: The Abrams tank is a four-man, highly mobile, full-tracked vehicle with significantly improved survivability provided by new ballistic protection and compartmentalization of ammunition. The M1A1 Abrams tank mounts a 120mm main gun and three secondary armament systems with improved day/night fire control and shoot-on-the-move capabilities. Higher speeds and faster acceleration provided by a turbine engine make the Abrams tank a more difficult target for opposing ground and air forces. The Abrams is manufactured by General Dynamics Land Systems Division at Lima, OH and Warren, MI.

Mission: The mission of the M1A1 Abrams Tank is to provide a main battle tank with increased survivability, mobility, firepower, and lethality for US armor forces.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(18)	106.6	(-)	31.7	(-)	26.1
Initial Spares		-		31.8		16.8
Subtotal		106.6		63.5		42.9
RDT&E		-		-		-
Military Construction		-		-		-
TOTAL		106.6		63.5		42.9

TRACKED COMBAT VEHICLES
ARMY

M1 UPGRADE PROGRAM

Description: The M1 upgrade program will provide continued modernization to the Abrams tank fleet by upgrading older M1 tanks to the M1A2 configuration. Upgrades include improved armor, a 120mm gun, a Commander's Independent Thermal Viewer, an Improved Commander's Weapon Station, digitized communications and nuclear, biological and chemical protection.

Mission: The mission of the M1 upgrade program is to provide a main battle tank with increased survivability, mobility, firepower, and lethality for US armor forces.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	225.8	(-)	160.5	(-)	79.7
Initial Spares		-		-		1.6
Subtotal		<hr/> 225.8		<hr/> 160.5		<hr/> 81.3
RDT&E		71.0		2.0		13.0
Military Construction		-		-		-
TOTAL		<hr/> 296.8		<hr/> 162.5		<hr/> 94.3

TRACKED COMBAT VEHICLES
ARMY

SELF-PROPELLED HOWITZER, M109 (MOD)

Description: The M109A6 Paladin is an improved version of the M109 self-propelled howitzer cannon that was fielded in the early 1960's. It is designed to provide the primary indirect fire support to the maneuver brigades of the armored and mechanized infantry divisions. The M109 is air transportable in a C-5 aircraft and is capable of firing both conventional and nuclear munitions. The prime contractor is BMY, a division of Harsco Corporation, York, PA.

Mission: The mission of the M109A6 Paladin is to provide the heavy Brigade/Division Commander with a close combat target servicing, interdiction, counterfire, and suppression capability.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	127.3	(-)	125.0	(-)	171.5
Initial Spares		-		-		2.1
Subtotal		127.3		125.0		173.6
RDT&E		-		-		-
Military Construction		-		-		-
TOTAL		127.3		125.0		173.6

OTHER PROCUREMENT PROGRAMS
ARMY

FAMILY OF HEAVY TACTICAL VEHICLES
PALLETIZED LOAD SYSTEM (PLS)

Description: The Palletized Load System (PLS) consists of a 16.5 ton tactical truck and 16.5 ton trailer employing the maximum practical use of commercial components. Each truck/trailer combination is also provided with a common flatrack. The PLS will be used by artillery, ordnance, and transportation units to move ammunition to and from transfer points. The contractor is the Oshkosh Truck Company, Oshkosh, WI.

Mission: The mission of the PLS is to improve the efficiency and effectiveness of ammunition resupply.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(281)	99.2	(961)	309.5	(945)	464.3
Initial Spares		<u> -</u>		<u> .9</u>		<u> 2.1</u>
Subtotal		99.2		310.4		466.4
RDT&E		2.2		1.9		-
Military Construction		<u> -</u>		<u> -</u>		<u> -</u>
TOTAL		101.4		312.3		466.4

OTHER PROCUREMENT PROGRAMS
ARMY

FAMILY OF MEDIUM TACTICAL VEHICLES (FMTV)

Description: The Family of Medium Tactical Vehicles (FMTV) is comprised of 2-1/2 ton and 5 ton tactical trucks employing maximum practical commonality of components. FMTV accommodates several mission-oriented body configurations and kit applications in order to satisfy the Army ground transportation requirements in these payload ranges. The prime contractor is Stewart & Stevenson, Houston, TX.

Mission: The FMTV is required to fill the 2-1/2 ton truck and 5 ton truck requirements and will be operated through the theater by combat support and combat service support units. The system is designed to operate worldwide on primary and secondary roads, trails, and cross-country terrain.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(1,197)	181.6	(1,885)	253.0	(256)	25.8
Initial Spares		—		1.6		2.3
Subtotal		181.6		254.6		28.1
RDT&E		7.2		-		3.7
Military Construction		—		—		—
TOTAL		188.8		254.6		31.8

OTHER PROCUREMENT PROGRAMS
ARMY

HIGH MOBILITY MULTIPURPOSE WHEELED VEHICLE (HMMWV)

Description: The High Mobility Multipurpose Wheeled Vehicle (HMMWV) is a light, highly mobile, diesel powered, 4-wheel drive tactical vehicle. The HMMWV can be configured through the use of common components and kits to become a cargo/troop carrier, armament carrier, shelter carrier, ambulance, and TOW and Stinger weapons carrier. The prime contractor is AM General/RENCO of South Bend, IN.

Mission: The HMMWV fulfills various missions such as serving as the platform for several weapon systems (TOW, M119 howitzer, and Avenger) and to provide medical evacuation and transport of personnel and cargo.

Program Acquisition Costs
(\$ Millions)

	FY 1992		FY 1993		FY 1994	
	Qty	Amt	Qty	Amt	Qty	Amt
Procurement						
Item	(7,997)	275.9	(6,035)	220.4	(5,847)	242.7
Initial Spares		-		5.8		4.5
		275.9		226.2		247.2
Subtotal		275.9		226.2		247.2
RDT&E		2.5		-		-
Military Construction		-		-		-
		278.4		226.2		247.2
TOTAL		278.4		226.2		247.2

OTHER PROCUREMENT PROGRAMS
ARMY

PROJECTILE, ARTILLERY, 155MM SADARM, XM898

Description: The 155MM Sense and Destroy Armor (SADARM) projectile is designed for use against self-propelled howitzers, light armored personnel carriers, and other stationary armored threat vehicles encountered in counterfire, close support, Suppression of Enemy Air Defense and interdiction. The projectile will include a carrier, two submunitions and the M762 electronic time fuze. It is delivered in the same manner as other 155MM munitions. The SADARM projectile operates in a fire and forget mode and its mission can be accomplished in inclement weather, degraded battlefield conditions, and Nuclear, Biological, Chemical environments. Operational interface with other systems will be accomplished through Tactical Fire Control System, Advanced Field Artillery Tactical Data System, and appropriate target acquisition sources.

Mission: The 155MM SADARM projectile will provide an enhanced fire/counterfire and anti-armored vehicle capability to attack targets well beyond the forward line of troops.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	-	(-)	-	(1213)	77.7
Spares		_____ -		_____ -		_____ -
Subtotal		-		-		77.7
RDT&E		148.2		92.7		41.0
Military Construction		_____ -		_____ -		_____ -
TOTAL		148.2		92.7		118.7

OTHER PROCUREMENT PROGRAMS
ARMY

SINGLE CHANNEL GROUND AIRBORNE RADIO SYSTEM (SINCGARS)

Description: The Single Channel Ground Airborne Radio System (SINCGARS) is the VHF-FM radio communications system providing the primary means of command control for infantry, armor, airborne and artillery units. It is superior to the 1960 technology radios it replaces in manpack, vehicular, and airborne configurations. Its frequency-hopping, jam-resistant capability can offset electronic warfare threats that can be effective against the current family of fixed frequency radios. It is a vital command and control system on the modern battlefield. The SINCGARS was developed by ITT, Fort Wayne, IN. The FY 1992, 1993 and 1994 procurement are being competed between ITT and General Dynamics, Tallahassee, FL.

Mission: The SINCGARS provides secure jam-resistant radio communication at all levels of battlefield. It has been designed to fully interoperable with the other military Services and NATO equipment.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	272.6	(-)	217.1	(-)	352.5
Initial Spares		-		1.8		1.8
Subtotal		272.6		218.9		354.3
RDT&E		1.7		4.9		1.9
Military Construction		-		-		-
TOTAL		274.3		223.8		356.2

OTHER PROCUREMENT PROGRAMS
NAVY

ASW TARGETS

Description: The ASW Targets program includes the MK-30 mobile heavyweight target, manufactured by Loral Systems Group, Akron, OH, and the new MK-39 Expendable Mobile ASW Training Target (EMATT). The initial procurement of EMATT will be from Sippican Ocean Systems, Inc. of Marion, MA. The FY 1994 program will be competitively awarded.

Mission: The mission of the ASW Targets is to provide air, surface, and submarine ASW units with a means to conduct realistic ASW exercise firings.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	11.1	(-)	25.9	(-)	17.6
Initial Spares		_____ -		_____ -		_____ -
Subtotal		11.1		25.9		17.6
RDT&E		6.0		13.3		7.0
Military Construction		_____ -		_____ -		_____ -
TOTAL		17.1		39.2		24.6

OTHER PROCUREMENT PROGRAMS
NAVY

FLEET SATELLITE COMMUNICATIONS (FLTSATCOM)

Description: The Fleet Satellite Communications (FLTSATCOM) consists of a constellation of satellites providing worldwide UHF communications coverage. Hughes was competitively selected to build UHF Follow-on satellites under a multiyear contract. Beginning with satellite number four (FY 1991) FLTSATCOM will include EHF capabilities. The major contractor is Hughes, El Segundo, CA.

Mission: The mission of the FLTSATCOM is to satisfy Navy/other urgent worldwide UHF mobile user communications requirements.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(3)	283.1	(-)	262.4	(-)	159.8
Initial Spares		_____		_____		_____
Subtotal		283.1		262.4		159.8
RDT&E						
Military Construction		_____		_____		_____
TOTAL		283.1		262.4		159.8

OTHER PROCUREMENT PROGRAMS
NAVY

MK-48 ADCAP TORPEDO

Description: The MK-48 Torpedo is a submarine launched, conventional, wire guided acoustic homing anti-submarine and anti-surface underwater weapon. The Advanced Capability (ADCAP) torpedo is designed to go faster, deeper and farther than the current MK-48 torpedo. The contractor is Hughes Aircraft of Hami, MS. The FY 1994 funding provides for the third year of a planned 3-year multiyear procurement.

Mission: The mission of the MK-48 Torpedo is to destroy or neutralize the modern, high speed, deep diving and quiet enemy submarine.

Program Acquisition Costs
(\$ Millions)

	FY 1992		FY 1993		FY 1994	
	Qty	Amt	Qty	Amt	Qty	Amt
Procurement						
Item	(108)	204.2	(108)	165.9	(108)	100.1
Initial Spares		<u>18.3</u>		<u>4.3</u>		<u>3.2</u>
Subtotal		222.5		170.2		103.3
RDT&E		14.7		30.8		27.2
Military Construction		<u>-</u>		<u>-</u>		<u>-</u>
TOTAL		237.2		201.0		130.5

OTHER PROCUREMENT PROGRAMS
NAVY

MK-50 TORPEDO

Description: The MK-50 Advanced Lightweight Torpedo (ALWT) is a ship launched or aircraft delivered anti-submarine warfare (ASW) torpedo with improved performance capabilities to counter deeper diving, faster and quieter submarines of the future. The major contractors are Alliant Techsystems Incorporated, Minneapolis, MN and Westinghouse Electric Corporation, Cleveland, OH.

Mission: The mission of the MK-50 Torpedo is to destroy or neutralize enemy submarines.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(218)	261.2	(212)	241.0	(-)	21.4
Initial Spares		<u>7.8</u>		<u>9.8</u>		<u>2.4</u>
Subtotal		269.0		250.8		23.8
RDT&E		12.6		8.8		-
Military Construction		<u>1.1</u>		<u>9.8</u>		<u>-</u>
TOTAL		282.7		269.4		23.8

**OTHER PROCUREMENT PROGRAMS
NAVY**

PRECISION GUIDED MUNITIONS

Description: This program encompasses two joint development efforts for the Air Force and the Navy. The first, the Joint Direct Attack Munitions (JDAM) program, addresses direct attack munition requirements. A feature of the program funded by the Air Force, is the development of a guidance kit which will be used with existing and new bombs to improve precision in all weather and from all altitudes. The second program is the Joint Standoff Weapon (JSOW) program, also known as the Advanced Interdiction Weapon System (AIWS), which is a joint development effort for next generation standoff munitions.

Mission: The JDAM and JSOW programs will enhance current DoD precision strike system capabilities by providing the ability to precisely attack time-critical, high value fixed, relocatable, or moving land and maritime targets under adverse environmental conditions and from all altitudes.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	-	(-)	-	(-)	-
Initial Spares		-		-		-
Subtotal		-		-		-
RDT&E		58.0		88.0		90.9
Military Construction		-		-		-
TOTAL		58.0		88.0		90.9

OTHER PROCUREMENT PROGRAMS
MARINE CORPS

HIGH MOBILITY MULTIPURPOSE WHEELED VEHICLE (HMMWV)

Description: The High Mobility Multipurpose Wheeled Vehicle (HMMWV) is a light, highly mobile, diesel powered, 4-wheel drive tactical vehicle. The HMMWV can be configured through the use of common components and kits to become a cargo/troop carrier, armament carrier, shelter carrier, ambulance, and TOW and Stinger weapons carrier. The prime contractor is AM General/RENCO of South Bend, IN.

Mission: The HMMWV fulfills various missions such as serving as the platform for several weapon systems (TOW, M119 howitzer, and Avenger) and to provide medical evacuation and transport of personnel and cargo.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(1,113)	41.8	(1,355)	47.3	(-)	-
Initial Spares		_____ -		_____ -		_____ -
Subtotal		41.8		47.3		-
RDT&E		-		-		-
Military Construction		_____ -		_____ -		_____ -
TOTAL		41.8		47.3		-

**OTHER PROCUREMENT PROGRAMS
MARINE CORPS**

SINGLE CHANNEL GROUND AIRBORNE RADIO SYSTEM (SINGARS)

Description: The Single Channel Ground Airborne Radio System (SINGARS) is the VHF-FM radio communications system providing the primary means of command control for infantry, armor, airborne and artillery units. It is superior to the 1960 technology radios it replaces in manpack, vehicular, and airborne configurations. Its frequency-hopping, jam-resistant capability can offset electronic warfare threats that can be effective against the current family of fixed frequency radios. It is a vital command and control system on the modern battlefield. The SINGARS was developed by ITT, Fort Wayne, IN. The FY 1992, 1993 and 1994 procurement are being competed between ITT and General Dynamics, Tallahassee, FL.

Mission: The SINGARS provides secure jam-resistant radio communication at all levels of battlefield. It has been designed to fully interoperable with the other military Services and NATO equipment.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	52.4	(-)	58.8	(-)	46.1
Initial Spares		—		—		—
Subtotal		52.4		58.8		46.1
RDT&E		-		.1		.5
Military Construction		—		—		—
TOTAL		52.4		58.9		46.6

OTHER PROCUREMENT PROGRAMS
AIR FORCE

CHEYENNE MOUNTAIN UPGRADE (CMU)

Description: The Cheyenne Mountain Upgrade (CMU) program is a series of replacement systems to modernize and enhance the Tactical Warning/Attack Assessment (TW/AA) command, control, and communications systems centralized within Cheyenne Mountain AFB. Major contractors include E-Systems, TRW, GTE, and Ford Aerospace.

Mission: Cheyenne Mountain acquisitions respond to Joint Chiefs of Staff requirements to provide national decision makers with accurate, timely, reliable, and unambiguous TW/AA information.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>	<u>FY 1993</u>	<u>FY 1994</u>
	<u>Qty</u> <u>Amt</u>	<u>Qty</u> <u>Amt</u>	<u>Qty</u> <u>Amt</u>
Procurement			
Item	33.7	27.2	29.3
Initial Spares	4.5	15.7	2.3
Subtotal	38.2	42.9	31.6
RDT&E	120.1	140.8	131.1
Military Construction	-	-	4.5
TOTAL	158.3	183.7	167.2

OTHER PROCUREMENT PROGRAMS
AIR FORCE

DEFENSE METEOROLOGICAL SATELLITE PROGRAM (DMSP)

Description: The Defense Meteorological Satellite Program (DMSP) consists of two satellites maintained in near polar orbit at all times. Data are recorded globally, stored onboard the satellites, then transmitted to either of two CONUS receiving stations and simultaneously relayed via commercial communications satellites to the Global Weather Control at Offutt AFB. Prime contractor is General Electric, Princeton, NJ.

Mission: DMSP provides recorded (stored) visual and infrared imagery and other specialized meteorological data from the entire earth to support special strategic missions; provides real-time readout of meteorological data to mobile Air Force and Navy terminals at key locations throughout the world to support tactical operations.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(2)	106.1	(-)	30.9	(-)	29.4
Initial Spares		—		—		—
Subtotal		106.1		30.9		29.4
RDT&E		28.2		21.9		32.0
Military Construction		—		—		—
TOTAL		134.3		52.8		61.4

**OTHER PROCUREMENT PROGRAMS
AIR FORCE**

DEFENSE SATELLITE COMMUNICATIONS SYSTEM (DSCS)

Description: The Defense Satellite Communications System (DSCS) consists of a satellite segment and a ground terminal segment. The satellite segment includes four active satellites on-orbit and will include two on-orbit spares when the full on-orbit complement is reached. The system provides worldwide coverage. Prime contractor for the satellite system is the General Electric Company, Valley Forge, PA.

Mission: It provides secure, long-distance communications supporting command and control, intelligence, warning, Presidential and other special user requirements.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	55.5	(-)	25.1	(-)	32.4
Initial Spares		-		-		-
		55.5		25.1		32.4
Subtotal		55.5		25.1		32.4
RDT&E		13.8		12.9		25.5
Military Construction		-		-		-
		69.3		38.0		57.9
TOTAL		69.3		38.0		57.9

OTHER PROCUREMENT PROGRAMS
AIR FORCE

DEFENSE SUPPORT PROGRAM (DSP)

Description: The Defense Support Program provides worldwide missile attack warning and surveillance. It specifically provides an early detection and warning of ballistic missiles and space launches during the boost phase. It is also capable of providing detection and reporting of nuclear detonations. It is launched from a Titan IV booster (with an initial upper stage). The prime contractor is TRW, Los Angeles, CA. Aerojet of Los Angeles, CA makes the primary sensor.

Mission: Improves our capability to detect and assess missile launches and detonations both in and outside of earth atmosphere.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	64.3	(-)	286.7	(1)	459.1
Initial Spares		-		-		-
Subtotal		64.3		286.7		459.1
RDT&E		51.5		49.9		66.8
Military Construction		-		-		-
TOTAL		115.8		336.6		525.9

OTHER PROCUREMENT PROGRAMS
AIR FORCE

MEDIUM LAUNCH VEHICLE (MLV)

Description: Provides for procurement of Medium Launch Vehicles for use in launching medium weight satellites into orbit. The prime contractor for the Delta II is McDonnell Douglas. The contractor for the Atlas II is General Dynamics.

Mission: The Delta II Launch Vehicle will launch NAVSTAR Global Positioning System satellites and the Atlas II will launch Defense Satellite Communications System satellites.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(4)	221.3	(4)	223.7	(2)	145.4
Initial Spares		-		-		-
Subtotal		221.3		223.7		145.4
RDT&E		40.4		49.7		58.5
Military Construction		25.0		33.0		-
TOTAL		286.7		306.4		203.9

**OTHER PROCUREMENT PROGRAMS
AIR FORCE**

MILSTAR

Description: Milstar is a joint service program to develop and acquire a communications satellite featuring Extremely High Frequency (EHF) transponders. The program also provides for a mission control segment, and new or modified communications terminals.

Mission: The Milstar system will support the highly survivable, jam-resistant, world-wide, secure communications needs of the President and commanders for the command and control of US strategic and tactical forces through all levels of conflict.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	-	(-)	-	(-)	-
Initial Spares		-		-		-
Subtotal		-		-		-
RDT&E		1,042.4		1,138.6		973.2
Military Construction		-		-		-
TOTAL		1,042.4		1,138.6		973.2

OTHER PROCUREMENT PROGRAMS
AIR FORCE

NAVSTAR GLOBAL POSITIONING SYSTEM (NAVSTAR GPS)

Description: The NAVSTAR Global Positioning System (NAVSTAR GPS) provides a global, three-dimensional positioning, velocity and time information system for aircraft, artillery, ships, tanks and other weapons delivery systems. Prime contractor for the Block IIR satellite is General Electric of Valley Forge, PA. Rockwell International of Seal Beach, CA made the Block II satellites. The fully operational constellation will have a total of 24 satellites in orbit at all times.

Mission: To provide a global system of satellites for navigation and position locating purposes.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(4)	297.6	(4)	184.8	(4)	172.2
Initial Spares		<u>4.2</u>		<u>6.7</u>		<u>2.0</u>
Subtotal		301.8		191.5		174.2
RDT&E		51.3		39.0		31.1
Military Construction		<u>-</u>		<u>-</u>		<u>1.7</u>
TOTAL*		353.1		230.5		207.0

* Includes both user equipment and space/ground segments.

**OTHER PROCUREMENT PROGRAMS
AIR FORCE**

PRECISION GUIDED MUNITIONS

Description: This program encompasses two joint development efforts for the Air Force and the Navy. The first, the Joint Direct Attack Munitions (JDAM) program, addresses direct attack munition requirements. A feature of the program funded by the Air Force, is the development of a guidance kit which will be used with existing and new bombs to improve precision in all weather and from all altitudes. The second program is the Joint Standoff Weapon (JSOW) program, also known as the Advanced Interdiction Weapon System (AIWS), which is a joint development effort for next generation standoff munitions.

Mission: The JDAM and JSOW programs will enhance current DoD precision strike system capabilities by providing the ability to precisely attack time-critical, high value fixed, relocatable, or moving land and maritime targets under adverse environmental conditions and from all altitudes.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	-	(-)	-	(-)	-
Initial Spares		-		-		-
Subtotal		-		-		-
RDT&E		-		30.1		112.4
Military Construction		-		-		-
TOTAL		-		30.1		112.4

OTHER PROCUREMENT PROGRAMS
AIR FORCE

SENSOR FUZED WEAPON (SFW)

Description: The Sensor Fuzed Weapon (CBU-97/B), is a cluster munition designed for direct attack against armored targets.

Mission: The objective of the SFW is to develop and produce a conventional munition capable of multiple kills per pass against operating armored vehicles, air defense units, and other support vehicles. It does not replace any existing system but will enhance current capabilities.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(98)	108.7	(22)	17.7	(110)	89.5
Initial Spares		-		-		-
Subtotal		108.7		17.7		89.5
RDT&E		-		-		-
Military Construction		-		-		-
TOTAL		108.7		17.7		89.5

OTHER PROCUREMENT PROGRAMS
AIR FORCE

SPACE BOOSTERS

Description: Provides for the procurement of Titan IV and the refurbishment of Titan II Space Launch Vehicles. The Titan IV can accommodate the Centaur upper stage and Inental Upper Stage (IUS) to launch the Department's heavier space payloads. Martin Marietta was competitively selected as the prime contractor. General Dynamics produces the Centaur upper stage and Boeing produces the IUS.

Mission: Provides consolidated launch support for requirements common to space programs. Program provides capability to launch critical DoD operational payloads.

Program Acquisition Costs
(\$ Millions)

	FY 1992		FY 1993		FY 1994	
	Qty	Amt	Qty	Amt	Qty	Amt
Procurement						
Item	(-)	287.5	(-)	369.4	(-)	470.6
Initial Spares		-		-		-
		-----		-----		-----
Subtotal		287.5		369.4		470.6
RDT&E		140.7		120.8		330.7
Military Construction		-		-		-
		-----		-----		-----
TOTAL		428.2		490.2		801.3

OTHER PROCUREMENT PROGRAMS
AIR FORCE

SPACELIFTER

Description: Provides for the development of a new family of expendable space launch vehicles that would be responsive, reliable, flexible and have a lower operating cost than existing boosters. Spacelifter will ensure continued uninterrupted access to space across a broad range of expected payload sizes, orbits and launch rates.

Mission: Provides for the development of an affordable expendable launch vehicle for use in the next century.

Program Acquisition Costs
(\$ Millions)

	FY 1992		FY 1993		FY 1994	
	Qty	Amt	Qty	Amt	Qty	Amt
Procurement						
Item	(-)	-	(-)	-	(-)	-
Initial Spares		-		-		-
		_____		_____		_____
Subtotal		-		-		-
RDT&E		48.7		9.4		53.9
Military Construction		-		-		-
		_____		_____		_____
TOTAL		48.7		9.4		53.9

**OTHER PROCUREMENT PROGRAMS
DOD PROGRAMS**

LAND REMOTE SENSING SATELLITE SYSTEM (LANDSAT)

Description: The Land Remote Sensing Satellite System (LANDSAT) program provides for the procurement of one Earth sensing satellite, to be ready for launch in 1997. The program is being jointly financed and managed by DoD and NASA, with DoD being responsible for satellite acquisition and launch using a Titan II booster. The prime contractors are General Electric Astro Space Division, Princeton, NJ. and Hughes Aircraft, Santa Barbara, CA.

Mission: To provide detailed images of the Earth surface for military and civilian applications.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	-	(1)	78.5	(-)	170.3
Initial Spares		-		-		-
		-----		-----		-----
Subtotal		-		78.5		170.3
RDT&B		-		5.8		34.5
Military Construction		-		-		-
		-----		-----		-----
TOTAL		-		84.3		204.8

**OTHER PROCUREMENT PROGRAMS
DOD PROGRAM**

STRATEGIC DEFENSE INITIATIVE (SDI)

Description: The Strategic Defense Initiative provides for the development and acquisition of weapon systems capable of defending the continental United States and deployed U.S. forces from ballistic missile attack. The program is focused on the development of advanced state-of-the-art technologies that provide an affordable protection from tactical ballistic missiles and a limited ICBM attack on the United States.

Mission: To conduct research on those defensive technologies and related systems that may enable the destruction of ballistic missiles and warheads in flight.

**Program Acquisition Costs
(\$ Millions)**

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	-	(-)	-	(-)	-
Initial Spares		-		-		-
Subtotal		-		-		-
RDT&E		3,121.5		2,667.5		1,950.4
Military Construction		5.1		5.4		2.7
TOTAL		3,126.6		2,672.9		1,953.1

OTHER PROCUREMENT PROGRAMS
DOD PROGRAM

TACTICAL MISSILE DEFENSE (TMD)

Description: The Tactical Missile Defense (TMD) program pursues research to counter the threat of tactical ballistic missiles facing United States and allied forces. The TMD programs are consolidated within the Strategic Defense Initiative Organization (SDIO), which is responsible for managing, directing, and coordinating TMD research within DoD. TMD programs for FY 1994 include the Arrow Continuation Experiment (ACES), Extended Range Interceptor (ERINT), PATRIOT missile systems, Theater High-Altitude Area Defense System (THAAD), and the Ground Based Radar (GBR).

Mission: To destroy tactical ballistic missiles while in flight.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	24.9	(-)	75.2	(-)	120.7
Initial Spares		-		-		-
		-----		-----		-----
Subtotal		24.9		75.2		120.7
RDT&E		785.4		1,027.3		1,686.7
Military Construction		-		-		-
		-----		-----		-----
TOTAL		810.3		1,102.5		1,807.4

OTHER PROCUREMENT PROGRAMS
DOD PROGRAM

UNMANNED AERIAL VEHICLES (UAV)

Description: The Unmanned Aerial Vehicles (UAV) program provides management oversight of DOD UAVs to ensure cost effective approaches for fielding a needed capability for the conventional forces. The principal near-term objective is the procurement of a short-range UAV system to meet all Service needs.

Mission: To provide complementary capabilities to manned systems in the functional areas of electronic warfare, intelligence, reconnaissance, surveillance, command and control, and communications.

Program Acquisition Costs
(\$ Millions)

	<u>FY 1992</u>		<u>FY 1993</u>		<u>FY 1994</u>	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	124.7	(-)	128.9	(-)	60.0
Initial Spares		<u>5.0</u>		<u>10.0</u>		<u>9.3</u>
Subtotal		129.7		138.9		69.3
RDT&E		99.4		132.5		187.5
Military Construction		<u>-</u>		<u>-</u>		<u>-</u>
TOTAL		229.1		271.4		256.8